

TELEPRESENCE

IMAGING SYSTEMS, DOCUMENTATION, ILLUMINATION, EQUIPMENT CARTS

11th EDITION 2/2019

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STORZ



THE WORLD OF ENDOSCOPY

Information on events is available on the KARL STORZ website
www.karlstorz.com

TELEPRESENCE

IMAGING SYSTEMS, DOCUMENTATION, ILLUMINATION, EQUIPMENT CARTS

11th EDITION 2/2019

Important Notes:

It is recommended to check the suitability of the product for the intended procedure prior to use.

Endoscopes and accessories contained in this catalog have been designed in part with the cooperation of physicians and are manufactured by the KARL STORZ group. If subcontractors are hired to manufacture individual components, these are made according to proprietary KARL STORZ plans or drawings. Furthermore, these products are subject to strict quality and control guidelines of the KARL STORZ group. Both contractual and general legal provisions prohibit subcontractors from supplying components manufactured by order of KARL STORZ to competitors.

Any assumptions that competitors' endoscopes and accessories are acquired from the same suppliers as the KARL STORZ products are not correct. Moreover, endoscopes and instruments provided by competitors are not manufactured according to the design specifications of KARL STORZ. This means it cannot be assumed that these endoscopes and accessories – even if they look identical on the outside – are constructed in the same manner and have been tested according to the same criteria.

Standardized Design and Labeling

KARL STORZ participates both in national and international bodies involved in the development of standards for endoscopes and endoscopic accessories. Standardized design and development therefore have long been implemented consistently by KARL STORZ. The user can rest assured that all products by the KARL STORZ group have been designed and constructed not only in compliance with strict internal quality guidelines, but also with international standards. All data relevant for safe use, such as viewing direction, sizes and diameters, or notes regarding sterilization of telescopes, are applied to the instruments, have been formulated according to international standards, and therefore provide reliable information.

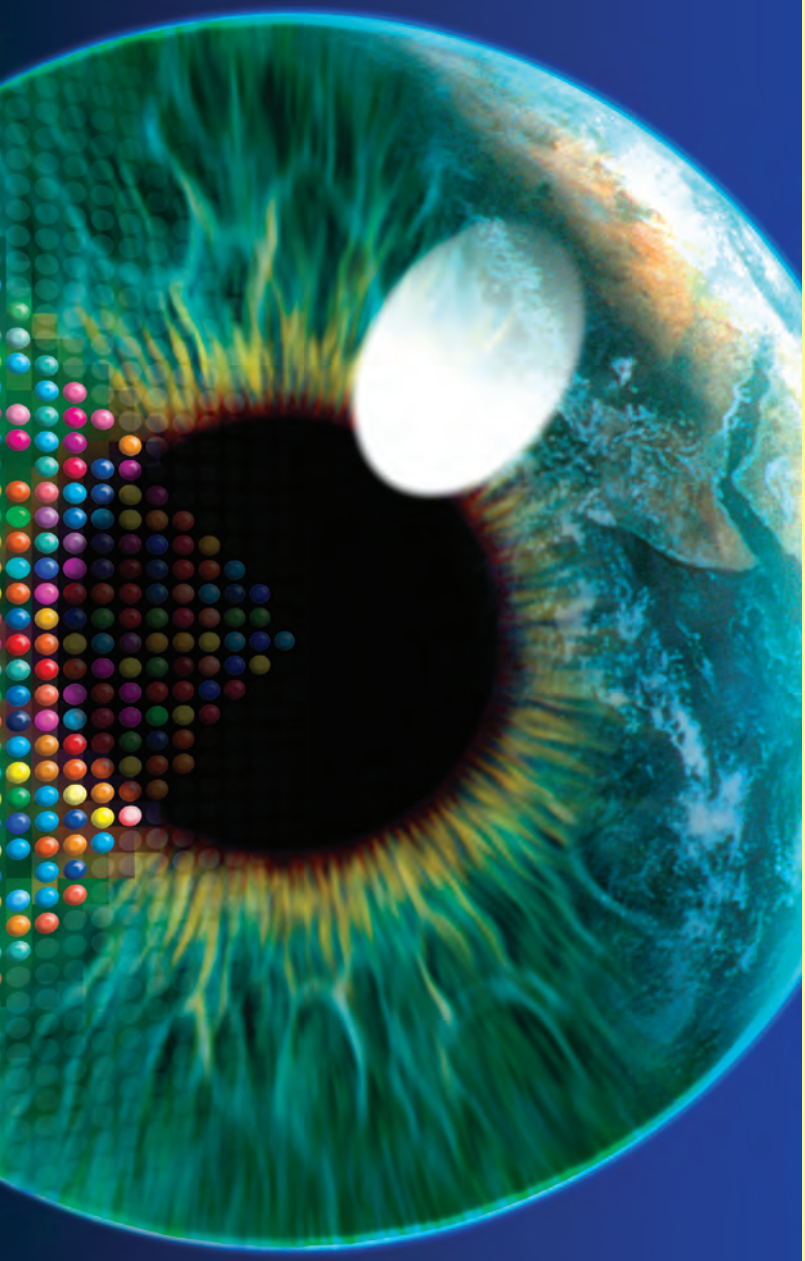
As we constantly seek to improve and modify our products, we reserve the right to make changes in design that vary from catalog descriptions.

Original or Counterfeit

KARL STORZ products are name brand articles renowned around the world and represent the state of the art in important areas of healthcare. A large number of "copy cat" products are currently being offered in many markets. These products are designed intentionally to resemble KARL STORZ products and use marketing strategies that at least point out their compatibility with KARL STORZ products. These products are by no means genuine products, since genuine KARL STORZ products are sold worldwide exclusively under the name of KARL STORZ, which appears on the packaging and the product. In the absence of such labeling, the product is not from KARL STORZ.

KARL STORZ, therefore, is unable to ensure that such products are actually compatible with genuine KARL STORZ products or can be used with them without injury to the patient.

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BASIC SETS

THE ENDOSCOPIC IMAGING CHAIN 3

UNITS FOR:

NEUROSURGERY –
3D/2D HYBRID 4
NIR/ICG 6

ELECTROMAGNETIC
NAVIGATION – ENT – 3D/2D HYBRID 8

OPTICAL
NAVIGATION – ENT – 3D/2D HYBRID 10

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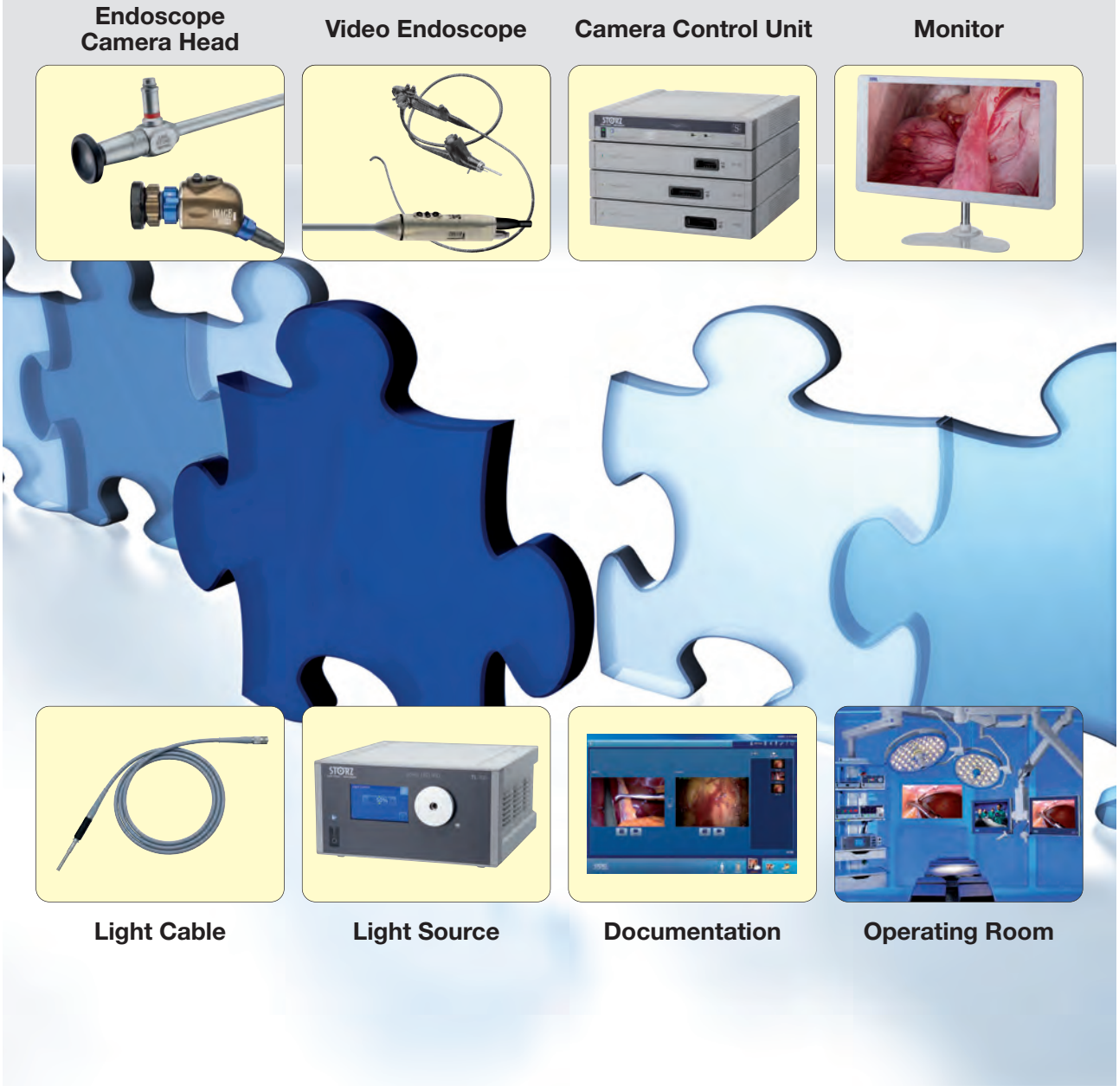
SPINE SURGERY
3D/2D HYBRID 32

The Endoscopic Imaging Chain

In minimally invasive surgery (MIC), excellent endoscopic imaging is a fundamental requirement for excellent surgical results. Before the endoscopic image is displayed on the monitor, the image is relayed through various links of the imaging chain starting with the light source and ending with the displayed image on the monitor. All these links form the endoscopic imaging chain.

Depending on the field of application, the endoscopy towers comprise other medical devices such as CO_2 insufflators, motor systems for drills and shavers, suction and irrigation units or high frequency units for coagulation and dissection. All these units are connected to each other in the fully integrated OR1™ and can be controlled via a central monitor.

For over 60 years, KARL STORZ Endoskope has been a worldwide leader in the field of endoscopy. The family-run company, based in Tuttlingen, plays a pioneering role in this branch of the industry and offers complete systems with excellent image quality and perfectly matched components.



10-18

Units for Neurosurgery – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE



10-18

Units for Neurosurgery – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 350	**32" 4K/3D Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
TH 200	**VITOM® 3D,** camera
TC 014	**IMAGE1 PILOT,** control unit
TH 001*	**Cover,** for VITOM® 3D
041150-20*	**Cover,** for IMAGE1 PILOT

Optional:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**

Light Source:

TL 300	**Cold Light Fountain POWER LED 300 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm
495 VIT	**Fiber Optic Light Cable**

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 606	**ENT/NEURO Software,** license
UP 610	**ADVANCED Package,** software, license
031529-10*	**Tubing Set for Irrigation,** CLEARVISION®
25 3200 01	**UNIMAT® 30,** suction pump set

Optional:

20 0141 30	**One-Pedal Footswitch**

Motor System:

40 7017 01-1	**UNIDRIVE® S III NEURO SCB**
031131-10*	**Tubing Set,** UNIDRIVE®/UNIDRIVE® S III
20 7120 33	**High-Speed Micro-Motor**
252640	**Perforator Handpiece,** max. speed 1200 rpm
252645	**Craniotome Handpiece,** max. speed 60,000 rpm
252671	**High-Speed Handpiece**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 624	**Pump Holder**
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

Holding System for IMAGE1 PILOT:

28272 HB	**Articulated Stand,** L-shaped
28172 HR	**Rotation Socket**

Holding System for VITOM® 3D:

28272 HSP	**VERSACRANE™ Holding Arm,** high
28272 VTK	**VITOM® 3D Clamping Jaw**

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

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For further information see NEUROSURGERY catalog

The video towers displayed can only be used in conjunction with a telescope.

10-18i

Units for Vascular Fluorescence Endoscopy in Neurosurgery – NIR/ICG

Basic Set

KARL STORZ — ENDOSKOPE

OPAL1®
NIR/ICG



10-18

Units for Vascular Fluorescence Endoscopy in Neurosurgery – NIR/ICG

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 220	**27" FULL HD Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Optional:

TM 342	**31" 4K Monitor**

Camera System:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 102	**IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head**

Light Source:

20 1337 01-1	**Cold Light Fountain D-LIGHT P SCB**
495 NCSC	**Fiber Optic Light Cable,** with safety lock

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 606	**ENT/NEURO Software,** license
UP 610	**ADVANCED Package,** software, license
031529-10*	**Tubing Set for Irrigation,** CLEARVISION®
25 3200 01	**UNIMAT® 30,** suction pump set

Optional:

20 0141 30	**One-Pedal Footswitch**

Motor System:

40 7017 01-1	**UNIDRIVE® S III NEURO SCB**
031131-10*	**Tubing Set,** UNIDRIVE®/UNIDRIVE® S III
20 7120 33	**High-Speed Micro-Motor**
252640	**Perforator Handpiece,** max. speed 1200 rpm
252645	**Craniotome Handpiece,** max. speed 60,000 rpm
252671	**High-Speed Handpiece**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 624	**Pump Holder**
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

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For further information see NEUROSURGERY catalog

The video towers displayed can only be used in conjunction with a telescope.

10-18i

Units for Electromagnetic Navigation – ENT – 3D/2D Hybrid

Basic Set



10-18

Units for Electromagnetic Navigation – ENT – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 350	**32" 4K/3D Monitor**
TM 220	**27" FULL HD Monitor**

Navigation System:

40 8200 01	**NAV1® ELECTROMAGNETIC**
40 8201 50	**EM Endoscope Tracker**
7230 AA	**HOPKINS® Straight Forward Telescope 0°,** enlarged view

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TC 001	**IMAGE1 S™ Video Endoscope Adaptor 0°**
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
7240 AA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 0°, diameter 4 mm
7240 BA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 30°, diameter 4 mm
7240 FA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 45°, diameter 4 mm

Optional:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**
TC 015	**IMAGE1 S D3-LINK® Extension Cable**

Light Source:

20 1614 01-1	**Cold Light Fountain POWER LED 175 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 606	**ENT/NEURO Software,** license
UP 610	**ADVANCED Package,** software, license
031529-10*	**Tubing Set for Irrigation,** CLEARVISION®

Optional:

20 0141 30	**One-Pedal Footswitch**

Motor System:

40 7016 01-1	**UNIDRIVE® S III ENT SCB**
031131-10*	**Tubing Set,** UNIDRIVE®/UNIDRIVE® S III
252671	**High-Speed Handpiece**
20 7120 33	**High-Speed Micro-Motor**

Documentation:

WD 350-EN***	**AIDA® with SMARTSCREEN®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

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***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope.

The 2D/3D hybrid video tower can be used for both 3D and 2D endoscopy.

For further information see ENDOSCOPES AND INSTRUMENTS FOR ENT, ESOPHAGOSCOPY – BRONCHOSCOPY catalog

10-18

Units for Optical Navigation – ENT – 3D/2D Hybrid

Basic Set



10-18

Units for Optical Navigation – ENT – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 350	**32" 4K/3D Monitor**
TM 220	**27" FULL HD Monitor**

Navigation System:

40 8100 01	**NAV1® OPTICAL**

Optional:

40 8120 01	**Navigation Camera Assistant NCA**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TC 001	**IMAGE1 S™ Video Endoscope Adaptor 0°**
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
7240 AA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 0°, diameter 4 mm
7240 BA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 30°, diameter 4 mm
7240 FA3D	**TIPCAM®1 S 3D ORL,** 3D video endoscope 45°, diameter 4 mm

Optional:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**

Light Source:

20 1614 01-1	**Cold Light Fountain POWER LED 175 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 606	**ENT/NEURO Software,** license
UP 610	**ADVANCED Package,** software, license
031529-10*	**Tubing Set for Irrigation,** CLEARVISION®

Optional:

20 0141 30	**One-Pedal Footswitch**

Motor System:

40 7016 01-1	**UNIDRIVE® S III ENT SCB**
031131-10*	**Tubing Set,** UNIDRIVE®/UNIDRIVE® S III
252671	**High-Speed Handpiece**
20 7120 33	**High-Speed Micro-Motor**

Documentation:

WD 350-EN***	**AIDA® with SMARTSCREEN®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 530	**Swivel Arm,** for navigation camera
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope.

The 2D/3D hybrid video tower can be used for both 3D and 2D endoscopy.

For further information see ENDOSCOPES AND INSTRUMENTS FOR ENT, ESOPHAGOSCOPY – BRONCHOSCOPY catalog

10-18

Units for Cardiovascular Surgery, Thoracic Surgery – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE



10-18

Units for Cardiovascular Surgery, Thoracic Surgery – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 350	**32" 4K/3D Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
26605 BA	**TIPCAM®1 S 3D LAP,** 3D video laparoscope 30°, diameter 10 mm
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**
TC 001	**IMAGE1 S™ Video Endoscope Adaptor 0°**

Optional:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**

Light Source:

TL 300	**Cold Light Fountain POWER LED 300 SCB**
495 NCSC	**Fiber Optic Light Cable,** with safety lock
495 TIP	**Fiber Optic Light Cable**

Insufflation:

UI 500S1	**ENDOFLATOR® 50 SCB**
031210-10*	**Insufflation Tubing Set,** ENDOFLATOR® 50

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 601	**SURGERY Software,** license
031524-10*	**Tubing Set**

Optional:

20 0141 30	**One-Pedal Footswitch**

HF Unit:

UH 401	**AUTOCON® III 400 High-End, BIVASCULARSAFE**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2
TC 010	**Two-Pedal Footswitch USB**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 609	**Bottle Holder,** for CO_2 bottles
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

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***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope.

The 2D/3D hybrid video tower can be used for both 3D and 2D endoscopy.

For further information see ENDOSCOPES AND INSTRUMENTS FOR ENT,ESOPHAGOSCOPY – BRONCHOSCOPY catalog

10-18

Units for Thoracic Surgery, Bronchoscopy and Esophagoscopy

Basic Set

KARL STORZ — ENDOSKOPE



10-18

Units for Thoracic Surgery, Bronchoscopy and Esophagoscopy

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 342	**31" 4K Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
TC 001	**IMAGE1 S™ Video Endoscope Adaptor 0°**

Optional:

TC 200EN*	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**

Light Source:

TL 300	**Cold Light Fountain POWER LED 300 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm
495 NVC	**Fiber Optic Light Cable,** with 90° deflection to the instrument

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 601	**SURGERY Software,** license
031524-10*	**Tubing Set**

Optional:

20 0141 30	**One-Pedal Footswitch**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 401	**AUTOCON® III 400 High-End, BIVASCULARSAFE**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 120	**Equipment Cart, narrow**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

Optional:

UG 605	**Keyboard Tray,** narrow

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

For further information see THORAX catalog

10-18

Units for Bronchoscopy and Esophagoscopy

Basic Set



10-18

Units for Bronchoscopy and Esophagoscopy

Basic Set

Monitor:

TM 342	**31" 4K Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN*	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
11900 BP	**Video Bronchoscope,** color system PAL
11900 BN	**Video Bronchoscope,** color system NTSC
TC 001	**IMAGE1 S™ Video Endoscope Adaptor 0°**

Optional:

TC 200EN*	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**

Light Source:

TL 300	**Cold Light Fountain POWER LED 300 SCB**
TL 100S1	**Cold Light Fountain CO_2MBI® LED SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm

Pump System:

25 3200 01	**UNIMAT® 30,** suction pump set

Documentation:

WD 300-EN**	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 300	**AUTOCON® III 300**
UF 901	**One-Pedal HF Footswitch**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**

Equipment Cart:

UG 120	**Equipment Cart, narrow**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 624	**Pump Holder**
UG 901	**Footswitch Holder,** for one-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

*** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

For further information see THORAX catalog

10-18

Units for Gastroenterology

Basic Set



10-18

Units for Gastroenterology

Basic Set

Monitor:

TM 220	**27" FULL HD Monitor**

Camera System:

TC 200EN*	**IMAGE1 S CONNECT®**, basic module
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TC 013	**IMAGE1 S™ Video Endoscope Adaptor 90°**

Flexible Video Endoscopes:

13821 PKSK	**Gastroscope,** SILVER SCOPE® series, color system PAL
13821 NKSK	**Same,** color system NTSC
13925 PKSK	**Standard Colonoscope,** with water jet channel diameter 1.2 mm, **long,** SILVER SCOPE® series, color system PAL
13925 NKSK	**Same,** color system NTSC

Optional:

13885 PKSK	**Duodenoscope,** SILVER SCOPE® series, color system PAL
13885 NKSK	**Same,** color system NTSC

Light Source:

TL 100S1	**Cold Light Fountain CO_2MBI® LED SCB**

Pump System:

25 3200 01	**UNIMAT® 30,** suction pump, patient tube included in set
20 4000 21	**CO_2 High Pressure Tube,** American connection/German connection, length 55 cm

Documentation:

WD 350-EN**	**AIDA® with SMARTSCREEN®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 300	**AUTOCON® III 300**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 120	**Equipment Cart, narrow**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 624	**Pump Holder**
UG 609	**Bottle Holder,** for CO_2 bottles
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
13991 ET	**Video Endoscope Holder**
2x UG 608	**Equipment Rail,** long
UG 631	**Tube Clip**
UG 618	**Plug Receptacle for Video Endoscopes**
UG 605	**Keyboard Tray,** narrow
UG 610	**Sliding Tray Holder,** narrow
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

Optional:

UG 619	**Cable Manager,** 2-piece

10-18

*** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU

For further information see GASTROENTEROLOGY catalog

Units for Laparoscopy – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE



10-18

Units for Laparoscopy – 3D/2D Hybrid

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 330	**32" 3D Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Optional:

TM 350	**32" 4K/3D Monitor**

Camera System:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
26605 AA	**TIPCAM®1 S 3D LAP,** 3D video laparoscope 0°, diameter 10 mm
26605 BA	**TIPCAM®1 S 3D LAP,** 3D video laparoscope 30°, diameter 10 mm
TH 102	**IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head**

Optional:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
TC 015	**IMAGE1 S D3-LINK® Extension Cable**

Light Source:

20 1337 01-1	**Cold Light Fountain D-LIGHT P SCB**
495 TIP	**Fiber Optic Light Cable**

Optional:

TL 300	**Cold Light Fountain POWER LED 300 SCB**

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 601	**SURGERY Software,** license
031524-10*	**Tubing Set**

Optional:

20 0141 30	**One-Pedal Footswitch**

Insufflation:

UI 500S1	**ENDOFLATOR® 50 SCB**
031210-10*	**Insufflation Tubing Set,** ENDOFLATOR® 50
UP 501S1	**S-PILOT®**, for smoke evacuation
031447-10*	**Tubing Set**
031111-10*	**Smoke Evacuation Filter**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 609	**Bottle Holder,** for CO_2 bottles
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

The 2D/3D hybrid video tower can be used for both 3D and 2D endoscopy.

For further information see LAPAROSCOPY IN SURGERY, GYNECOLOGY, UROLOGY catalog

10-18

Units for Laparoscopy

Basic Set

KARL STORZ — ENDOSKOPE

OPAL1®
NIR/ICG



10-18

Units for Laparoscopy

Basic Set

Monitor:

TM 220	**27" FULL HD Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Optional:

TM 342	**31" 4K Monitor**

Camera System:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 102	**IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head**

Optional:

TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**
TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
11292 VSK	**Flexible Video Choledochoscope IMAGE1 S™**

Light Source:

20 1337 01-1	**Cold Light Fountain D-LIGHT P SCB**
495 NCSC	**Fiber Optic Light Cable,** with safety lock

Optional:

TL 300	**Cold Light Fountain POWER LED 300 SCB**

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 601	**SURGERY Software,** license
031524-10*	**Tubing Set**

Optional:

20 0141 30	**One-Pedal Footswitch**

Insufflation:

UI 500S1	**ENDOFLATOR® 50 SCB**
031210-10*	**Insufflation Tubing Set,** ENDOFLATOR® 50
UP 501S1	**S-PILOT®**, for smoke evacuation
031447-10*	**Tubing Set**
031111-10*	**Smoke Evacuation Filter**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2
TC 010	**Two-Pedal Footswitch USB**

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
UG 609	**Bottle Holder,** for CO_2 bottles
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

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***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

For further information see LAPAROSCOPY IN SURGERY, GYNECOLOGY, UROLOGY catalog

10-18

Units for Hysteroscopy

Basic Set



10-18

Units for Hysteroscopy

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 342	**31" 4K Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Optional:

TM 220	**27" FULL HD Monitor**

Camera System:

TC 201EN***	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**

Optional:

TC 200EN***	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**

Light Source:

20 1614 01-1	**Cold Light Fountain POWER LED 175 SCB**
495 NTA	**Fiber Optic Light Cable**

Pump System:

26 3400 01-1	**HYSTEROMAT E.A.S.I.® SCB**
031217-10*	**Tubing Set Suction**
031717-10*	**Irrigation Tubing Set**
20 3000 50	**Suction Bottle,** 5 l, sterilizable
20 3000 34	**Bottle Cap**

Alternative:

26 3311 01-1	HAMOU® **ENDOMAT® SCB**

Alternative:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 602	**HYSTEROSCOPY Software,** license
UP 603	**IBS® SHAVER,** software, license
031523-10*	**Tubing Set Irrigation,** pressure-controlled
030647-10*	**Tubing Set Suction,** direct suction

Motor System:

26 7010 01-1	**UNIDRIVE® S III SCB**
20 7010 70	**Control Cable**
26208 SA	**Shaver Blade GYN**
26 7020 50	**DRILLCUT-X® II Shaver Handpiece GYN**
031124-10*	**Filter,** for suction

Documentation:

WD 300-EN****	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
29005 DFH	**Footswitch Holder,** for two- and three-pedal footswitches
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

** **Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

*** **Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope.

For further information see GYNECOLOGY catalog

10-18

Units for Urology – Upper Urinary Tract

Basic Set

KARL STORZ — ENDOSKOPE



10-18

Units for Urology – Upper Urinary Tract

Basic Set

Monitor:

TM 220	**27" FULL HD Monitor**
9619 NB	**19" HD Monitor**

Camera System:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**

Alternative:

TC 013	**IMAGE1 S™ Video Endoscope Adaptor 90°**
11278 VSK	**Video Uretero-Renoscope FLEX-X^{C}, Set,** compatible with IMAGE1 S™
11278 VSUK	**Video Uretero-Renoscope FLEX-X^{C}, Set,** compatible with IMAGE1 S™
TH 113	**IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head**

Light Source:

20 1614 01-1	**Cold Light Fountain POWER LED 175 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm

Pump System:

UP410 S1	**UROMAT E.A.S.I.® SCB**
031217-10*	**Tubing Set Suction**
031717-10*	**Irrigation Tubing Set**
UP 003	**Silicone Tubing Set**
20 3000 51	**Suction Bottle,** 0.5 l, sterilizable
20 3000 39	**Bottle Cap**

Alternative:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 604	**UROLOGY Software,** license
031647-10*	**Tubing Set**
031523-10*	**Tubing Set Irrigation,** pressure-controlled
20 7010 70	**Control Cable**

Laser:

27 7502 01-1	**CALCULASE II SCB**
27 7502 87	**CALCULASE II Fiber Kit**
27 7502 80	**Fiber Stripper Set**

Ultrasonic Generator:

27 6100 01	**CALCUSON Ultrasonic Generator Set**

Documentation:

WD 350-EN***	**AIDA® with SMARTSCREEN®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2
20 0403 73	**RS-232 Connecting Cable,** length 180 cm

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 540	**Monitor Swivel Arm**
29005 EFH	**Footswitch Holder,** for one-pedal footswitch
ET21-1022	**6-way Socket Outlet**
ET21-1004	**POAG Plate Energy Beam**
UP 011	**Bottle Holder**
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

For further information see UROLOGY catalog

10-18

Units for Urology – Lower Urinary Tract

Basic Set

KARL STORZ — ENDOSKOPE

OPAL1®
PDD



10-18

Units for Urology – Lower Urinary Tract

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 220	**27" FULL HD Monitor**
9619 NB	**19" HD Monitor**

Camera System:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TH 113	**IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head**

Alternative:

11272 VHK	**Flexible Video Cystoscope HD-VIEW, Set,** with positive deflection, for use with IMAGE1 S™
11272 VHUK	**Flexible Video Cystoscope HD-VIEW, Set,** with contrapositive deflection, for use with IMAGE1 S™

Light Source:

20 133601-133	**Cold Light Fountain D-LIGHT C/AF SCB**
495 FS	**Fluid Light Cable**

Pump System:

UP410 S1	**UROMAT E.A.S.I.® SCB**
031217-10*	**Tubing Set Suction**
031717-10*	**Irrigation Tubing Set**
25 3200 01	**UNIMAT® 30,** suction pump set

Alternative:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 604	**UROLOGY Software,** license
031523-10*	**Tubing Set Irrigation,** pressure-controlled
030647-10*	**Tubing Set Suction,** direct suction

Motor System:

27 7010 01-1	**UNIDRIVE® S III SCB**
27 7020 50	**DRILLCUT-X® II Morcellator Handpiece URO**
27056 LM	**Morcellator Blade,** diameter 4 mm, length 40 cm
UP 501 S2	**S-PILOT® Set,** incl. control cable
031457-10*	**Tubing Set**

Documentation:

WD 350-EN***	**AIDA® with SMARTSCREEN®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2
20 0403 73	**RS-232 Connecting Cable,** length 180 cm

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 540	**Monitor Swivel Arm**
UG 624	**Pump Holder**
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

* mtp

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***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope or video endoscope.

For further information see UROLOGY catalog

10-18

Units for Arthroscopy

Basic Set



10-18

Units for Arthroscopy

Basic Set

KARL STORZ — ENDOSKOPE

Monitor:

TM 342	**31" 4K Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**

Alternative:

TC 200EN*	**IMAGE1 S CONNECT®**, basic module
TC 301	**IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 110	**IMAGE1 S™ HX One-Chip FULL HD Camera Head**
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**

Light Source:

20 1614 01-1	**Cold Light Fountain POWER LED 175 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm

Pump System:

28 3407 01-1	**ARTHROPUMP® POWER**
031328-10*	**Tubing Set Irrigation,** ARTHROPUMP® POWER
031228-10*	**Tubing Set Suction,** ARTHROPUMP® POWER

Alternative:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 605	**ARTHROSCOPY Software,** license
031523-10*	**Tubing Set Irrigation,** pressure-controlled
UP 006	**Control Cable**

Optional:

20 0141 30	**One-Pedal Footswitch**

Motor System:

28 7230 01-1	**UNIDRIVE® S III ARTHRO SCB,** with accessories
28200 DX	**DRILLCUT-X® ARTHRO Shaver Handpiece**
20 0168 31	**Two-Pedal Footswitch**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 300	**AUTOCON® III 300**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
29005 DFH	**Footswitch Holder,** for two- and three-pedal footswitches
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

Optional:

UG 606	**Keyboard Tray,** wide

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**** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

The video towers displayed can only be used in conjunction with a telescope.

For further information see ARTHROSCOPY, SPORTS MEDICINE, SPINE SURGERY catalog

10-18

Units for Spine Surgery – 3D/2D Hybrid

Basic Set



10-18

Units for Spine Surgery – 3D/2D Hybrid

Basic Set

Monitor:

TM 350	**32" 4K/3D Monitor**
20 0906 21	**21.5" Touch Screen, 24 V**

Camera System:

TC 201EN**	**IMAGE1 S CONNECT® II,** 4K technology, basic module
TC 304	**IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
TC 302	**IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D
TH 120	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**
TH 200	**VITOM® 3D,** camera
TC 014	**IMAGE1 PILOT,** control unit
TH 001*	**Cover,** for VITOM® 3D
041150-20*	**Cover,** for IMAGE1 PILOT

Optional:

TC 200EN**	**IMAGE1 S CONNECT®**, basic module
TC 300	**IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD
TH 100	**IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**

Light Source:

TL 300	**Cold Light Fountain POWER LED 300 SCB**
495 NAC	**Fiber Optic Light Cable,** diameter 3.5 mm
495 VIT	**Fiber Optic Light Cable**

Pump System:

UP 210	**ENDOMAT® SELECT,** roller pump
UP 607	**SPINE Software,** license
031523-10*	**Tubing Set Irrigation,** pressure-controlled

Optional:

20 0141 30	**One-Pedal Footswitch**
28 3407 01-1	**ARTHROPUMP® POWER**
031328-10*	**Tubing Set Irrigation,** ARTHROPUMP® POWER
031228-10*	**Tubing Set Suction,** ARTHROPUMP® POWER

Motor System:

40 7017 01-1	**UNIDRIVE® S III NEURO SCB**
031131-10*	**Tubing Set,** UNIDRIVE®/UNIDRIVE® S III
20 7120 33	**High-Speed Micro-Motor**
252672	**High-Speed Handpiece**
28 7120 50	**DRILLCUT-X® II Spine Handpiece**

Documentation:

WD 300-EN***	**AIDA®**
TC 009	**USB Adaptor,** for ACC 1 and ACC 2

HF Unit:

UH 400	**AUTOCON® III 400 High-End**
27805	**Neutral Electrode**
27806 UR	**Neutral Electrode Connecting Cable**
UF 902	**Two-Pedal HF Footswitch**

Equipment Cart:

UG 220	**Equipment Cart, wide**
UG 500	**Monitor Holder**
UG 501	**Monitor Holder Adaptor**
UG 520	**Monitor Holding Arm**
29005 DFH	**Footswitch Holder,** for two- and three-pedal footswitches
UG 902	**Footswitch Holder,** for two-pedal HF footswitch
UG 310	**Isolation Transformer**
UG 410	**Earth Leakage Monitor**

Holding System for IMAGE1 PILOT:

28272 HB	**Articulated Stand,** L-shaped
28172 HR	**Rotation Socket**

Holding System for VITOM® 3D:

28272 HSP	**VERSACRANE™ Holding Arm,** high
28272 VTK	**VITOM® 3D Clamping Jaw**

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***** Also available in the following languages:** DE, ES, FR, IT, PT, RU

For further information see NEUROSURGERY catalog

The video towers displayed can only be used in conjunction with a telescope.

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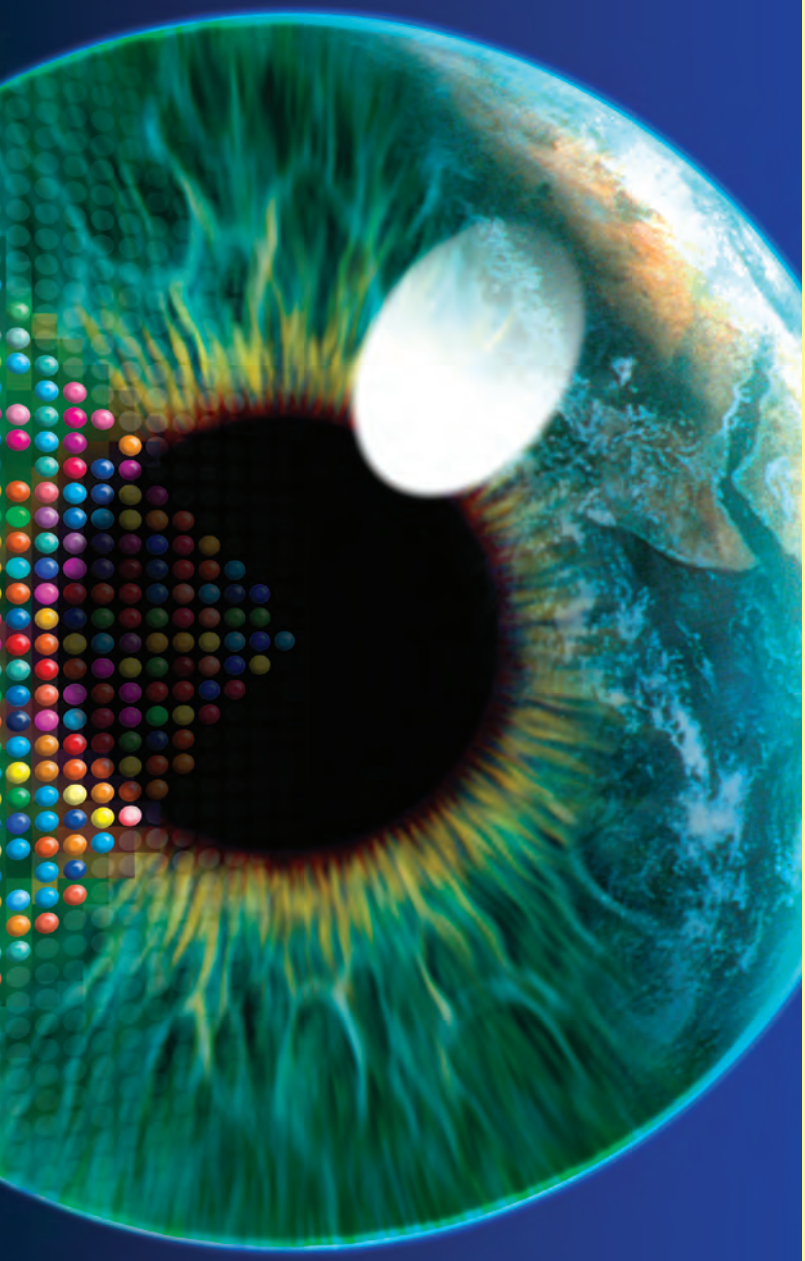


IMAGE1 S™ CAMERA PLATFORM

INTRODUCTION 36-38

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CAMERA HEADS 44-50

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VITOM® 3D 53-54

ACCESSORIES 55-58

IMAGE1 S™

As individual as your requirements

The IMAGE1 S™ camera platform offers surgeons a single system for all applications. As a modular camera platform, IMAGE1 S™ combines various technologies (e.g., rigid, flexible and 3D endoscopy as well as 4K technology) in one system and can therefore be adapted to individual customer needs. Furthermore, near infrared (NIR/ICG) for fluorescence imaging, the integration of operating microscopes and the use of VITOM® 3D is possible via the camera platform.

- Clear and crisp images with natural color rendition
- Individual modules can be selected according to user requirements, e.g., for rigid, flexible and 3D endoscopy as well as 4K technology
- Three innovative visualization technologies for easy tissue differentiation:
  CLARA, CHROMA and SPECTRA – also in 3D
- Automatic light source control
- Multiple source management: Allows simultaneous control, display and documentation of image data from two connected images sources (e.g., for hybrid surgical procedures)



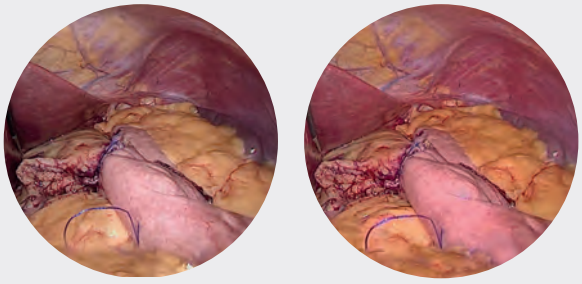
IMAGE1 S™ – a single system for all applications: Rigid, flexible 3D endoscopy and fluorescence imaging

10-18

Innovative Visualization Modes

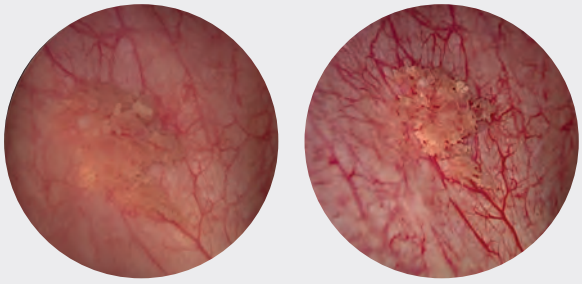
- CLARA: Homogeneous illumination
- CHROMA: Contrast enhancement
- SPECTRA: Color shift and exchange

CLARA: Homogeneous image illumination



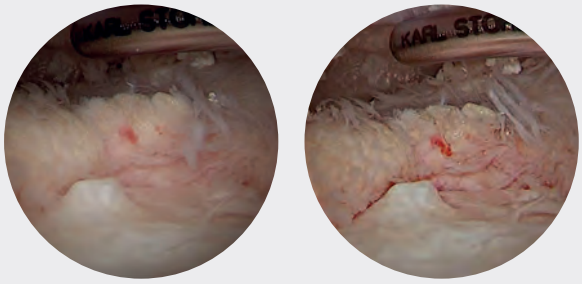
Standard image | CLARA

CHROMA: Contrast enhancement



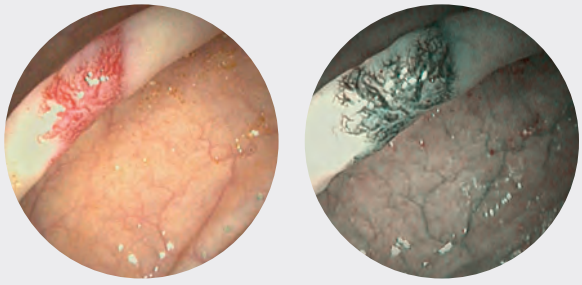
Standard image | CHROMA

CLARA + CHROMA: Homogeneous image illumination + contrast enhancement



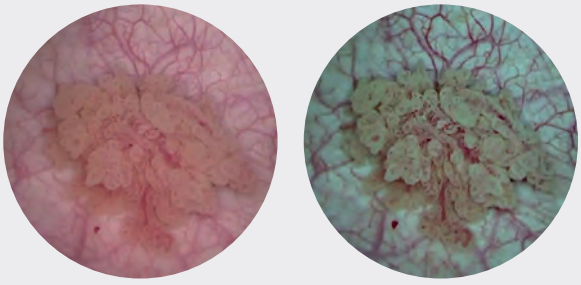
Standard image | CLARA + CHROMA

SPECTRA A: Spectral color shift and switch (filtering of reds)



Standard image | SPECTRA A

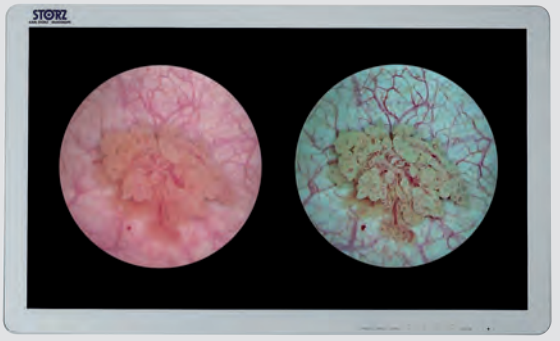
SPECTRA B: Spectral color shift (intensification of greens and blues)



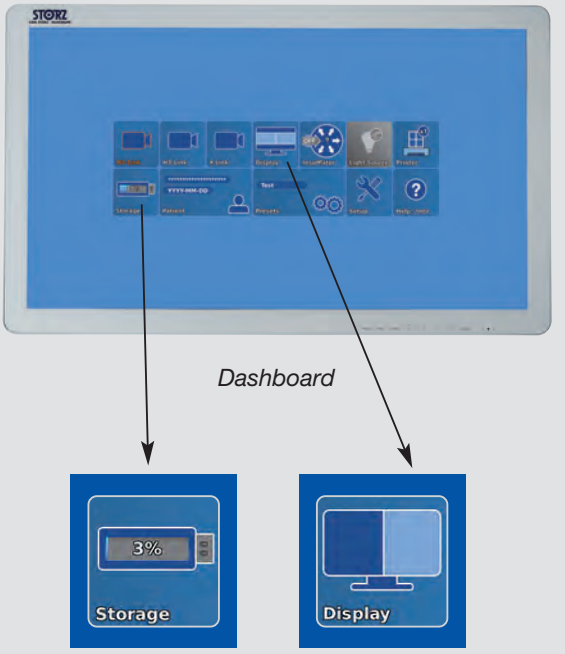
Standard image | SPECTRA B

Innovative Design

- Side-by-side view: Parallel display of standard images and S-Technologies possible
- Multiple source management: Allows simultaneous control, display and documentation of image data from two connected image sources (e.g., for hybrid surgical procedures)
- Intuitive menu navigation (dashboard, live and setup menu)
- Icons show changes to settings or change of status
- Individual presets possible
- 50 patient datasets can be stored



Side-by-side view: Parallel display of a standard image and SPECTRA A



Dashboard

10-18

IMAGE1 S CONNECT®, basic module



TC 200EN/TC 201EN

Rigid Endoscopy FULL HD

IMAGE1 S™ H3-LINK



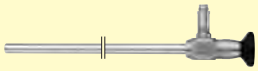
TC 300

Three-Chip FULL HD Camera Heads



TH 100, TH 103, TH 104, TH 102, TH 106

Rigid Endoscopes



Flexible Endoscopy + Rigid Endoscopy

IMAGE1 S™ X-LINK



TC 301

Video Endoscope Adaptors



TC 001, TC 013

Flexible Video Endoscopes



Flexible Video Cystoscope HD-VIEW



11272 VHU

3D Endoscopy + VITOM® 3D

IMAGE1 S D3-LINK®



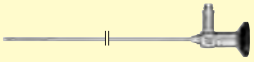
TC 302

One-Chip FULL HD Camera Heads



TH 110*, TH 111*, TH 112, TH 113, TH 115, TH 116

Rigid Endoscopes



Rigid 3D Video Endoscopes LAP, ORL and NEURO



26605 AA/BA
7240 AA3D/BA3D/FA3D
28164 AA3D**/BA3D**/FA3D**

Rigid Endoscopy 4K Technology

IMAGE1 S™ 4U-LINK



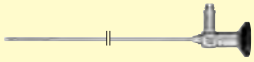
TC 304

One-Chip 4K UHD Camera Head



TH 120

Rigid Endoscopes



VITOM® 3D, camera



TH 200

*** No S-Technologies available**
** **Currently not available in CE markets.**

Compatible Camera Heads and Video Endoscopes see chapter 7, COMPATIBILITY OVERVIEW

Components/Spare Parts see chapter 13

IMAGE1 S™ NEW

IMAGE1 S CONNECT® – Basic Module

KARL STORZ — ENDOSKOPE

IMAGE1 S

Basic Module	TC 200EN* TC 201EN*



	TC 200EN* **IMAGE1 S CONNECT®,** basic module	TC 201EN* **IMAGE1 S CONNECT® II,** **4K technology,** basic module
	for use with up to 3 link modules, with integrated KARL STORZ-SCB and digital Image Processing Module	for use with up to 3 link modules, with integrated KARL STORZ-SCB and digital Image Processing Module
including:	**Mains Cord,** length 300 cm **DVI-D Connecting Cable,** length 300 cm **SCB Connecting Cable,** length 100 cm **USB Flash Drive,** 32 GB **USB Silicone Keyboard,** with touchpad, EN	**Mains Cord,** length 300 cm **DVI-D Connecting Cable,** length 300 cm **DisplayPort Cable,** length 300 cm **3G-SDI Cable,** length 300 cm **SCB Connecting Cable,** length 100 cm **USB Flash Drive,** 32 GB **USB Silicone Keyboard,** with touchpad, EN

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*** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

Specifications see page 41

Components/Spare Parts see chapter 13

Specifications:

	TC 200EN*	TC 201EN*
Interfaces		
Video outputs	2x DVI-D, 1x 3G-SDI	2x Display Port 1.2, 1x 12G/3G-SDI, 1x DVI-D
Signal output format	1920 x 1080 pixels	3840 x 2160 pixels
Link inputs	3x	
Remote outputs	optional with TC 009	
USB interface	4x USB (2x front, 2x rear)	
Unit communication	SCB 2x 6-pin mini-DIN	SCB 1x 6-pin mini-DIN
Image Documentation		
Image format	JPEG	
Resolution	1920 x 1080 pixels	3840 x 2160 pixels
Video Documentation		
Video format	MPEG 4	
Resolution	1920 x 1080 pixels	
Further Properties		
Fluorescence imaging	imaging with near infrarot light using indocyanine green (ICG) Photodynamic Diagnosis (PDD)	
Unit properties	automatic light source control, S-Technologies	
Power consumption	62 VA	100 – 135 VA
Power frequency	50/60 Hz	
Power supply	100 – 120 VAC, 200 – 240 VAC	100 – 240 VAC
Dimensions w x h x d	305 x 54 x 320 mm	
Weight	2.1 kg	3.1 kg
Cleaning	wipe disinfection	
Degree of ingress protection	IPX0	
Protection class	1	
Degree of protection	CF-Defib	

Documentation System see chapter 10, DATA MANAGEMENT, DOCUMENTATION AND IMAGE DISTRIBUTION

IMAGE1 S™ NEW

LINK Modules – freely selectable

KARL STORZ — ENDOSKOPE

IMAGE1 S

Module for rigid endoscopy, 4K technology	TC 304
Module for 3D endoscopy and VITOM® 3D	TC 302
Module for flexible and rigid endoscopy	TC 301
Module for rigid endoscopy, FULL HD	TC 300



TC 304



TC 302



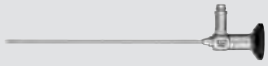
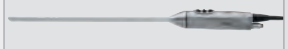
TC 301



TC 300

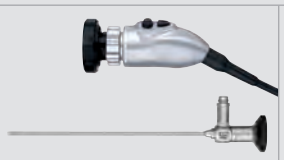
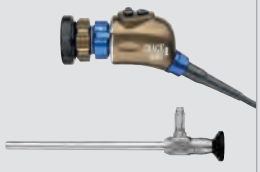
	TC 300 **IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD	TC 301 **IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy	TC 302 **IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D	TC 304 **IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology
including:	**Mains Cord,** length 300 cm **Link Cable,** length 20 cm			
for use with:	● **IMAGE1 S CONNECT®,** basic module ● **IMAGE1 S CONNECT® II,** 4K technology, basic module			

For use with:

TC 304 **IMAGE1 S™ 4U-LINK,** module for rigid endoscopy, 4K technology		**4K Camera Heads**	**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head** TH 120
		**Rigid Endoscopes**	
TC 302 **IMAGE1 S D3-LINK®,** module for 3D endoscopy and VITOM® 3D		**10 mm Video Endoscope**	**TIPCAM®1 S 3D LAP** 26605 AA/BA
		**4 mm Video Endoscope**	**TIPCAM®1 S 3D ORL** 7240 AA3D/BA3D/FA3D **TIPCAM®1 S 3D NEURO** 28164 AA3D*/BA3D*/FA3D*
		**VITOM® 3D,** camera head	**VITOM® 3D** TH 200

10-18

*** Currently not available on CE markets.**

TC 301 **IMAGE1 S™ X-LINK,** module for flexible and rigid endoscopy		**One-Chip Camera Heads** **Rigid Endoscopes**	TH 116, TH 115, TH 113, TH 112, TH 111*, TH 110*
		**Flexible Video Endoscopes** **Video Endoscope Adaptors**	**Compatible Video Endoscopes** see chapter 7, COMPATIBILITY OVERVIEW TC 013, TC 001
TC 300 **IMAGE1 S™ H3-LINK,** module for rigid endoscopy, FULL HD		**Three-Chip FULL HD Camera Heads** **Rigid Endoscopes**	TH 106, TH 104, TH 103, TH 102, TH 101,TH 100

* No S-Technologies available

Specifications:

	TC 300, TC 301, TC 302	TC 304
Interfaces		
LINK outputs	1x	
Further Properties		
Power consumption	62 VA	86 VA
Power frequency	50/60 Hz	
Power supply	100 – 120 VAC, 200 – 240 VAC	100 – 240 VAC
Dimensions w x h x d	305 x 54 x 320 mm	
Weight	1.86 kg	
Cleaning	wipe disinfection	
Degree of ingress protection	IPX0	
Protection class	1	
Degree of protection	CF-Defib	

3D Accessories see pages 68-70

Components/Spare Parts see chapter 13

IMAGE1 S™ NEW

Three-Chip FULL HD Camera Heads

KARL STORZ — ENDOSKOPE

CLARA | CHROMA | SPECTRA





Pendulum System

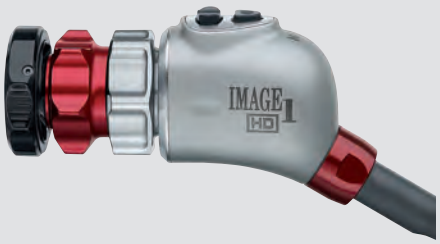
	TH 100 **IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**	TH 103 **IMAGE1 S™ H3-P Three-Chip FULL HD Pendulum Camera Head**
For use with:	● **IMAGE1 S™ H3-LINK,** module for rigid endoscopy	

Specifications

Frame rate	50/60 Hz	
Image sensor	3-chip	
Resolution	1920 x 1080 pixels	
Scanning method	progressive scan	
Lens	Parfocal Zoom Lens	pendulum system, fixed focus
Focal length	f = 15 – 31 mm (2x)	f = 16 mm
Dimensions w x h x l	39 x 49 x 114 mm	35 x 47 x 88 mm
Weight	270 g	226 g
Cable length	300 cm	
Cable routing	**angled**	**straight**
Camera head buttons	freely programmable	
Grip mechanism	standard eyepiece adaptor	
Reprocessing	soakable, EO sterilization, H_2O_2 (hydrogen peroxide)	
S-Technologies	CLARA, CHROMA, SPECTRA	
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib	

10-18

CLARA | CHROMA | SPECTRA



autoclavable, with titanium housing

	TH 104 **IMAGE1 S™ H3-ZA** **Three-Chip FULL HD Camera Head**
For use with:	● **IMAGE1 S™ H3-LINK,** module for rigid endoscopy

Specifications:

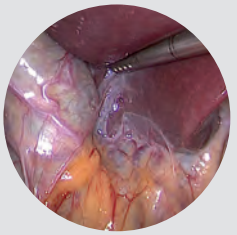
Frame rate	50/60 Hz
Image sensor	3-chip
Resolution	1920 x 1080 pixels
Scanning method	progressive scan
Lens	Parfocal Zoom Lens
Focal length	f = 15 – 31 mm (2x)
Dimensions w x h x l	39 x 49 x 100 mm
Weight	299 g
Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	**autoclavable,** soakable, EO sterilization, H_2O_2 (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

10-18

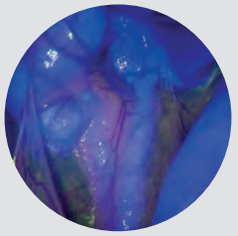
IMAGE1 S™ NEW

Three-Chip FULL HD Camera Heads with OPAL1® Technology

KARL STORZ — ENDOSKOPE



Visualization of the bile ducts under standard white light



Visualization of the bile ducts in the NIR/ICG mode

OPAL1™ NIR/ICG | CLARA | CHROMA | SPECTRA



For white light applications and identification of anatomical structures with indocyanine green (ICG)

	TH 102 **IMAGE1 S™ H3-Z FI** **Three-Chip FULL HD Camera Head**
For use with:	● **IMAGE1 S™ H3-LINK,** module for rigid endoscopy ● **D-LIGHT P Light Source**

Specifications:

Frame rate	50/60 Hz
Image sensor	3-chip
Resolution	1920 x 1080 pixels
Scanning method	progressive scan
Lens	Parfocal Zoom Lens
Focal length	f = 15 – 31 mm (2x)
Dimensions w x h x l	39 x 49 x 114 mm
Weight	246 g
Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EO sterilization, H_2O_2 (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA
Molecular imaging	**imaging in near infra red with indocyanine green (ICG)**
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

10-18

Light Source for ICG see chapter 9, COLD LIGHT FOUNTAINS AND CABLES, page 148

IMAGE1 S™ NEW

Three-Chip FULL HD C-MOUNT Camera Head for Microscopy

CLARA | CHROMA | SPECTRA



	With C-MOUNT thread for coupling to microscopes
	TH 106 **IMAGE1 S™ H3-M COVIEW®** **Three-Chip FULL HD C-MOUNT Camera Head**
For use with:	● **IMAGE1 S™ H3-LINK,** module for rigid endoscopy

Specifications:

Frame rate	50/60 Hz
Image sensor	3-chip
Resolution	1920 x 1080 pixels
Scanning method	progressive scan
Dimensions w x h x l	45 x 50 x 60 mm
Weight	240 g
Cable length	900 cm, detachable
Cable routing	straight
Camera head buttons	freely programmable
Grip mechanism	C-MOUNT connection
Reprocessing	wipe disinfection
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

Accessories for Microscopy see chapter 6, ACCESSORIES FOR OPERATING MICROSCOPES

IMAGE1 S™ HX NEW

One-Chip FULL HD Camera Heads

KARL STORZ — ENDOSKOPE

Light weight





		Pendulum System
	TH 110 **IMAGE1 S™ HX*** **One-Chip FULL HD Camera Head**	TH 111 **IMAGE1 S™ HX-P*** **One-Chip FULL HD Pendulum Camera Head**
For use with:	● **IMAGE1 S™ X-LINK,** module for one-chip camera heads and flexible endoscopy	

Specifications:

Frame rate	50/60 Hz	
Image sensor	1-chip	
Resolution	1920 x 1080 pixels	
Scanning method	progressive scan	
Lens	fixed focus	pendulum system, fixed focus
Focal length	f = 16	
Dimensions w x h x l	35 x 36 x 100 mm	
Weight	130 g	142 g
Cable length	300 cm	
Cable routing	angled	straight
Camera head buttons	freely programmable	
Grip mechanism	standard eyepiece adaptor	
Reprocessing	soakable, EO sterilization, H_2O_2 (hydrogen peroxide)	
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib	

10-18

* No S-Technologies available

IMAGE1 S™ HX NEW

One-Chip FULL HD Camera Heads with OPAL1® Technology

KARL STORZ — ENDOSKOPE

OPAL1™ PDD | CHROMA | SPECTRA | Light weight





		Pendulum System
	TH 112 **IMAGE1 S™ HX FI** **One-Chip FULL HD Camera Head**	TH 113 **IMAGE1 S™ HX-P FI** **One-Chip FULL HD Camera Head**
For use with:	● **IMAGE1 S™ X-LINK,** module for one-chip camera heads and flexible endoscopy	

Specifications:

Frame rate	50/60 Hz	
Image sensor	1-chip	
Resolution	1920 x 1080 pixels	
Scanning method	progressive scan	
Lens	fixed focus	pendulum system, fixed focus
Focal length	f = 16	
Dimensions w x h x l	35 x 36 x 100 mm	
Weight	130 g	142 g
Cable length	300 cm	
Cable routing	angled	straight
Camera head buttons	freely programmable	
Grip mechanism	standard eyepiece adaptor	
Reprocessing	soakable, EO sterilization, H_2O_2 (hydrogen peroxide)	
S-Technologies	CHROMA, SPECTRA	
Molecular Imaging	**Photodynamic Diagnosis (PDD)**	
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib	

Light Source for PDD see chapter 9, COLD LIGHT FOUNTAINS AND CABLES, pages 149-150

IMAGE1 S™ 4U NEW

One-Chip 4K UHD Camera Head

CLARA CHROMA SPECTRA 4K Light weight



	TH 120 **IMAGE1 S™ 4U** **One-Chip 4K UHD Camera Head**
For use with:	● **IMAGE1 S™ 4U-LINK,** module for 4K endoscopy

Specifications:

Frame rate	50/60 Hz
Image sensor	1-chip
Resolution	3840 × 2160 pixels
Scanning method	progressive scan
Lens	fixed focus
Focal length	f = 18 mm
Dimensions w x h x l	46 x 37 x 133 mm
Weight	210 g
Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EO sterilization, H_2O_2 (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

10-18

IMAGE1 S™ 3D NEW

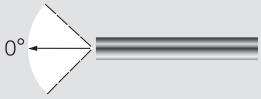
3D Video Endoscopes

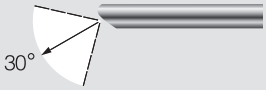
KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



10 mm Video Endoscope





autoclavable

	26605 AA **TIPCAM®1 S 3D LAP**	26605 BA **TIPCAM®1 S 3D LAP**
For use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy	

Specifications:

Frame rate	50/60 Hz	
Image sensor	2-chip	
Resolution	1920 x 1080 pixels	
Scanning method	progressive scan	
Direction of view	**0°**	**30°**
Outer diameter	10 mm	
Working length	32 cm	32 cm
Weight	420 g	
Cable length	300 cm	
Cable routing	straight	
Camera head buttons	freely programmable	
Reprocessing	**autoclavable,** H_2O_2 (hydrogen peroxide)	
S-Technologies	CLARA, CHROMA, SPECTRA in 2D and 3D	
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib	

Accessories for 3D Camera Platforms see chapter 3, 3D CAMERA PLATFORM IMAGE1 S™ 3D

IMAGE1 S™ 3D NEW

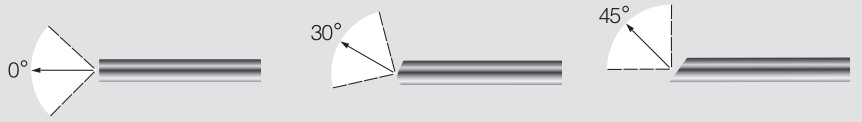
3D Video Endoscopes

KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



4 mm Video Endoscope



autoclavable

	7240 AA3D **TIPCAM®1 S 3D ORL**	7240 BA3D **TIPCAM®1 S 3D ORL**	7240 FA3D **TIPCAM®1 S 3D ORL**
	28164 AA3D* **TIPCAM®1 S 3D NEURO**	28164 BA3D* **TIPCAM®1 S 3D NEURO**	28164 FA3D* **TIPCAM®1 S 3D NEURO**
For use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy		

Specifications:

Frame rate	50/60 Hz		
Image sensor	2-chip		
Resolution	1920 x 1080 pixels		
Scanning method	progressive scan		
Direction of view	**0°**	**30°**	**45°**
Outer diameter	4 mm		
Working length	18 cm		
Weight	300 g		
Cable length	300 cm		
Cable routing	straight		
Camera head buttons	freely programmable		
Reprocessing	**autoclavable,** H_2O_2 (hydrogen peroxide)		
S-Technologies	CLARA, CHROMA, SPECTRA in 2D and 3D		
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib		

10-18

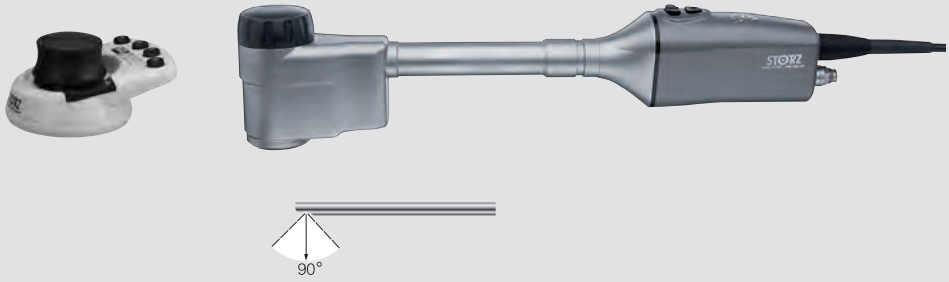
*** Currently not available in CE markets.**

Accessories for 3D Camera Platforms see chapter 3, 3D CAMERA PLATFORM IMAGE1 S™ 3D

VITOM® 3D

3D visualization for microsurgery and open surgery

CLARA CHROMA SPECTRA 3D



	TH 200 **VITOM® 3D**
	with zoom and focus function, integrated illumination and horizontal alignment, working distance 20 – 50 cm, fiber optic light transmission incorporated, suitable for wipe disinfection
For use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy ● **IMAGE1 PILOT,** input unit

	TC 014 **IMAGE1 PILOT**
	control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units
For use with:	● **IMAGE1 S™** ● **VITOM® 3D**

IMAGE1 PILOT is required for the use of VITOM® 3D.
VITOM® 3D and IMAGE1 PILOT are always used with a holding system.
Please note: Special clamping jaws are available for mounting VITOM® 3D to the holding system.
Holding Systems see chapter 11

10-18

Specifications:

Frame rate	50/60 Hz
Image sensor	2x 4K CMOS
Image display	3D, 2D
Scanning method	progressive scan
Zoom	infinitely variable
Working distance (WD)	**20 – 50 cm**
Magnification (WD 30 cm with 32" 3D monitor)	approx. 8 – 30 x
Cable length	500 cm
Cable routing	straight
Cleaning	wipe disinfection
Sterilization concept	single-use covers
Control concept	IMAGE1 PILOT for intuitive control of all relevant functions (zoom, focus, menu, navigation), 4 buttons for rapid access, 3D wheel
Camera head buttons	freely programmable
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of protection	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

10-18

IMAGE1 S

Accessories for IMAGE1 S CONNECT®



USB Silicone Keyboard, with touchpad

Character sets:

20 0402 40DE	German	**20** 0402 40RU	Russian
20 0402 40FR	French	**20** 0402 40SE	Swedish
20 0402 40IT	Italian	**20** 0402 40US	English
20 0402 40PT	Portuguese	**20** 0402 40CH	German, French, Italian
20 0402 40ES	Spanish		



TC 009 — **USB Adaptor,** for ACC 1 and ACC 2, for use in conjunction with IMAGE1 S CONNECT® and AIDA® HD



TC 011 — **Link Cable,** length 20 cm



TC 014 — **IMAGE1 PILOT,** control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units, for use with IMAGE1 S™ and VITOM® 3D TH 200



28272 HB — **Articulated Stand,** reinforced version, L-shaped, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 52 cm, with quick release coupling KSLOCK (female)

28172 HR — **Rotation Socket**

Accessories for IMAGE1 S™ X-LINK



TC 001 — **IMAGE1 S™ Video Endoscope Adaptor,** color systems PAL/NTSC, length 60 cm, for use with IMAGE1 S™ X-LINK TC 301

TC 013 — **IMAGE1 S™ Video Endoscope Adaptor 90°,** color systems PAL/NTSC, angled 90°, length 50 cm, for use with IMAGE1 S™ X-LINK TC 301

Accessories for IMAGE1 S D3-LINK®



TM 003 — **3D Polarization Glasses,** fogless, passive, for use with 3D monitors



9800 C — **3D Clip-on Glasses,** circularly polarized, for use with 3D monitors

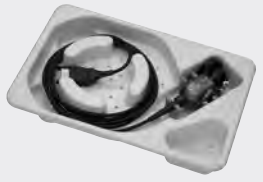


TC 015* — **Extension Cable IMAGE1 S D3-LINK®,** length 250 cm, to extend the video connecting cable between a video endoscope and IMAGE1 S D3-LINK® TC 302

*** Extension Cable TC 015 is not compatible with TH 200 (VITOM® 3D).**

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Accessories for IMAGE1 S™ Camera Heads

	39301 HXTS	**Plastic Container for Sterilization and Storage** of IMAGE1 HX and HX-P camera heads, suitable for steam, gas, and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 395 x 260 x 70 mm
	39301 Z3TS	**Plastic Container for Sterilization and Storage** of camera heads IMAGE1 S™ H3-Z, H3-ZA and H3-Z FI as well as IMAGE 1 H3-Z, H3-ZA, H3-FA and H3-Z FI, **autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm
	39301 PHTS	**Plastic Container for Sterilization and Storage** of camera heads IMAGE1 S™ H3-P and H3-ZI as well as IMAGE1 H3-P and H3-ZI, **autoclavable,** suitable for use with steam, gas and hydrogen peroxide sterilization, Sterrad® compatible, external dimensions (w x d x h): 385 x 255 x 75 mm
	**22** 2200 71	**H3-M S Camera Head Cable,** detachable, length 900 cm

Camera Covers, sterile, for single use

STERILE

040112-40*	**Camera Cover,** folded inside out, 13 x 242 cm, sterile, for single use, package of 40
040113-50*	**Camera Cover,** telescopic folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 50
040114-15*	**Camera Cover,** rolled, with plastic insertion aid, 17 x 242 cm, sterile, for single use, package of 15
040115-40*	**Camera Cover,** telescopic folding with cardboard insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040169-40*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040170-25*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 18 x 242 cm, sterile, for single use, package of 25
041171-40*	**Camera Cover,** width at camera head 6 cm, length 309 cm, sterile, for single use, package of 40, for use with D1 camera head

* mtp

Further Products for Single Use see MTP SINGLE-USE PRODUCTS catalog

Please note: The instruments displayed in the plastic container are not included in delivery.

10-18

Camera Covers, sterile, for single use

STERILE



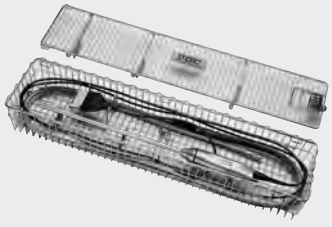
TH 001* **Cover,** for VITOM® 3D, sterile, for single use, package of 10



041150-20* **Cover,** with elasticated tip, 42 x 164 cm, sterile, for single use, package of 20, for use with KARL STORZ holding systems and IMAGE1 PILOT

Accessories for 3D Endoscopes and VITOM® 3D

3D



39501 XTC **Wire Tray for Cleaning, Sterilization and Storage** of TIPCAM®1 S 3D LAP Video Endoscopes 26605 AA/BA and one light cable, **autoclavable,** external dimensions (w x d x h): 640 x 150 x 87 mm

39501 STC **Wire Tray for Cleaning, Sterilization and Storage** of TIPCAM®1 S 3D Video Endoscopes 7240 AA3D/BA3D/FA3D or 28164 AA3D/BA3D/FA3D and one light cable, **autoclavable,** external dimensions (w x d x h): 500 x 150 x 87 mm



39502 ZH **Wire Tray, stackable,** with hole plates
39502 LH **Lid**
39100 SH **Silicone Grid Insert LARGE DIAMOND GRID**
39100 PS **Fixation Pins,** package of 12
39360 AS **Silicone Tie-Downs,** package of 12



495 TIP **Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm, for use with TIPCAM®

495 NCSC **Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm

495 VIT **Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm

* mtp

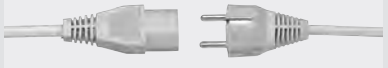
Please note: The instruments displayed in the wire tray are not included in delivery.

	495 ND	**Fiber Optic Light Cable,** with straight connector, diameter 3.5 mm, length 300 cm
	495 NAC	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm

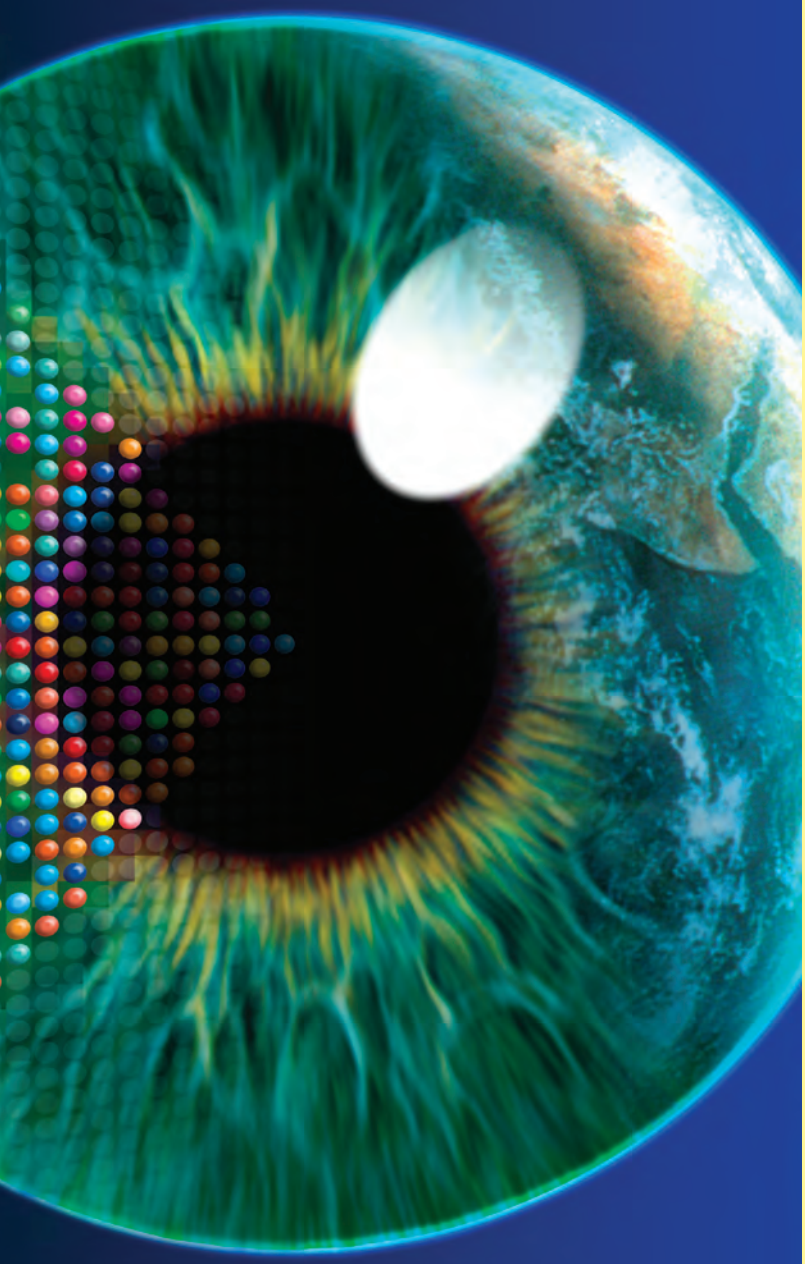
Holding System for VITOM® 3D:

	28272 HSP	**VERSACRANE™ Holding Arm,** high, mobile, spring-supported, with quick release coupling KSLOCK, for use with KARL STORZ clamping jaws. The VERSACRANE™ holding arm is intended for use with VITOM® scopes. including: **Mobile Stand,** with height adjustment
	WARNING:	The VERSACRANE™ holding arm cannot be used with rigid endoscopes!
	28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK

Further Accessories

	TC 003	**DisplayPort Cable,** length 300 cm
	TC 008 TC 017 TC 005 TC 007	**12G-SDI Cable,** length 10 m **Same,** length 300 cm **3G-SDI Cable,** length 10 m **Same,** length 300 cm
	**20** 0400 86 **20** 0400 89	**DVI-D Connecting Cable,** length 200 cm **Same,** length 300 cm
	**20** 2210 70	**ACC Connecting Cable,** for controlling peripheral units, length 180 cm
	400 A	**Mains Cord,** length 300 cm
	**20** 0402 82	**USB Flash Drive,** 32 GB
	TC 010	**Two-Pedal Footswitch USB,** for use with IMAGE1 S CONNECT® TC 200EN

10-18



3D CAMERA PLATFORM IMAGE1 S™ 3D

3D CAMERA PLATFORM 60

OVERVIEW 61

BASIC MODULE,
LINK MODULE 62

3D VIDEO ENDOSCOPES 63-64

VITOM® 3D 65-66

3D MONITORS 67

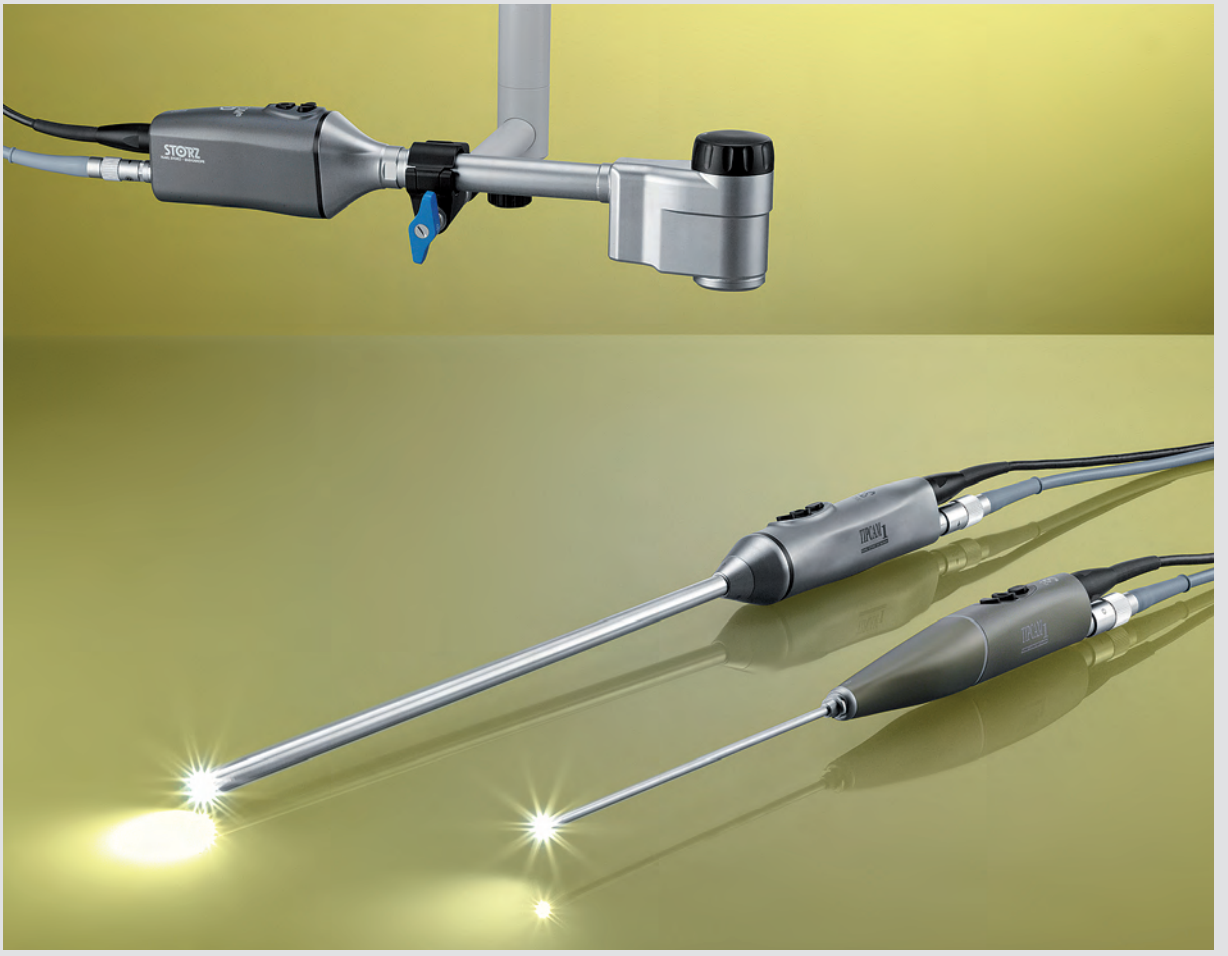
ACCESSORIES 68-70

IMAGE1 S™ 3D

A Dimension Ahead

The IMAGE1 S™ camera platform from KARL STORZ impresses with its brilliant image quality and a wide range of applications – from laparoscopy, gynecology, ENT to microsurgical interventions. Thanks to the modular system design, existing 2D systems can be upgraded to 3D.

- 3D system featuring video endoscopes with diameters of 10 mm and 4 mm as well as VITOM® 3D
- Easy toggle between 3D and 2D
- Easy integration into the IMAGE1 S™ platform
- Three innovative visualization technologies for easy tissue differentiation:
  CLARA, CHROMA and SPECTRA – in 2D and 3D



10-18

Components/Spare Parts see chapter 13

IMAGE1 S™ 3D

Overview

KARL STORZ — ENDOSKOPE

3D Polarization Glasses
3D Clip-on Glasses



TM 003
9800 C

3D Monitors



TM 330, TM 263, TM 350

IMAGE1 S CONNECT®, basic module TC 201EN
TC 200EN



IMAGE1 S D3-LINK®, module for 3D endoscopy TC 302

TIPCAM®1 S 3D ORL,
4 mm Video Endoscope



7240 AA3D/BA3D/FA3D

Fiber Optic Light Cables



495 ND/NAC

Cold Light Fountain
POWER LED 175 SCB



20 1614 01-1

TIPCAM®1 S 3D LAP in FULL HD,
10 mm Video Endoscope



26605 AA/BA

Fiber Optic Light Cables



495 TIP/NCSC

Cold Light Fountain
POWER LED 300



TL 300

VITOM® 3D, camera



TH 200, TC 014

Fiber Optic Light Cable



495 VIT

Cold Light Fountain
POWER LED 300



TL 300

Compatible Camera Heads and Video Endoscopes see chapter 7, COMPATIBILITY OVERVIEW

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IMAGE1 S™ 3D NEW

Basic Module and Link Module

KARL STORZ — ENDOSKOPE

Basic Module	TC 200EN*
3D Endoscopy VITOM® 3D	TC 302



	TC 200EN* **IMAGE1 S CONNECT®**	TC 302 **IMAGE1 S D3-LINK®**
including:	**Mains Cord,** length 300 cm **DVI-D Connecting Cable,** length 300 cm **SCB Connecting Cable,** length 100 cm **USB Flash Drive,** 32 GB **USB Silicone Keyboard,** with touchpad, EN	**Mains Cord,** length 300 cm **Link Cable,** length 20 cm
for use with:	● **TIPCAM®1 S 3D LAP,** 10 mm video laparoscope ● **TIPCAM®1 S 3D ORL,** 4 mm video endoscope ● **VITOM® 3D,** camera	
Specifications:		
Interfaces		
Video outputs	2x DVI-D, 1x 3G-SDI	–
Signal output format	1920 x 1080 pixels, 50/60 Hz	–
Link outputs	–	1x
Link inputs	3x	–
Remote outputs	optional with TC 009	–
USB interfaces	4x USB, (2x front, 2x rear)	–
Unit communication	KARL STORZ Communication Bus (SCB) 2x 6 pin mini-DIN, RJ45	–
Further Properties		
Power consumption	62 VA	
Power frequency	50/60 Hz	
Power supply	100 – 120 VAC, 200 – 240 VAC	
Dimensions w x h x d	305 x 54 x 320 mm	
Weight	2.1 kg	1.86 kg
Cleaning	wipe disinfection	
Degree of ingress protection	IPX0	
Protection class	1	
Safety class	CF-Defib	

*** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

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IMAGE1 S™ 3D NEW

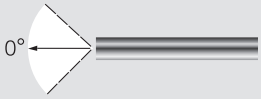
3D Video Endoscopes

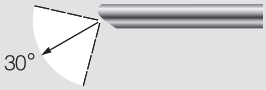
KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



10 mm Video Endoscope





autoclavable

	26605 AA **TIPCAM®1 S 3D LAP**	26605 BA **TIPCAM®1 S 3D LAP**
For use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy	

Specifications:

Frame rate	50/60 Hz	
Image sensor	2-chip	
Resolution	1920 x 1080 pixels	
Scanning method	progressive scan	
Direction of view	**0°**	**30°**
Outer diameter	10 mm	
Working length	32 cm	32 cm
Weight	420 g	
Cable length	300 cm	
Cable routing	straight	
Camera head buttons	freely programmable	
Reprocessing	**autoclavable,** H_2O_2 (hydrogen peroxide)	
S-Technologies	CLARA, CHROMA, SPECTRA in 2D and 3D	
Degree of safety	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib	

Accessories for 3D Camera Platforms see pages 68-70

IMAGE1 S™ 3D NEW

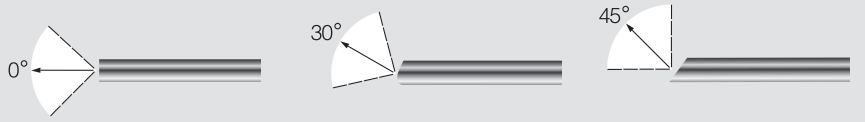
3D Video Endoscopes

KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



4 mm Video Endoscope



134°C **autoclavable**

	7240 AA3D **TIPCAM®1 S 3D ORL**	7240 BA3D **TIPCAM®1 S 3D ORL**	7240 FA3D **TIPCAM®1 S 3D ORL**
	28164 AA3D* **TIPCAM®1 S 3D NEURO**	28164 BA3D* **TIPCAM®1 S 3D NEURO**	28164 FA3D* **TIPCAM®1 S 3D NEURO**
for use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy		

Specifications:

Frame rate	50/60 Hz		
Image sensor	2-chip		
Resolution	1920 x 1080 pixels		
Scanning method	progressive scan		
Direction of view	**0°**	**30°**	**45°**
Outer diameter	4 mm		
Working length	18 cm		
Weight	300 g		
Cable length	300 cm		
Cable routing	straight		
Camera head buttons	freely programmable		
Reprocessing	**autoclavable,** H_2O_2 (hydrogen peroxide)		
S-Technologies	CLARA, CHROMA, SPECTRA in 2D and 3D		
Degree of safety	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib		

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*** Currently not available on CE markets.**

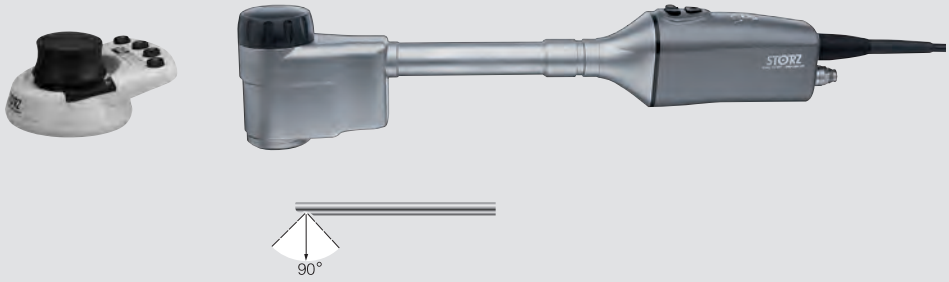
Accessories for 3D Camera Platforms see pages 68-70

VITOM® 3D

3D visualization for microsurgery and open surgery

KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



	TH 200 **VITOM® 3D**
	with zoom and focus function, integrated illumination and horizontal alignment, working distance 20 – 50 cm, fiber optic light transmission incorporated, suitable for wipe disinfection
For use with:	● **IMAGE1 S D3-LINK®,** module for 3D endoscopy ● **IMAGE1 PILOT,** input unit

	TC 014 **IMAGE1 PILOT**
	control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units
For use with:	● **IMAGE1 S™** ● **VITOM® 3D**

IMAGE1 PILOT is required for the use of VITOM® 3D.
VITOM® 3D and IMAGE1 PILOT are always used with a holding system.
Please note: Special clamping jaws are available for mounting VITOM® 3D to the holding system.
Holding Systems see chapter 11

10-18

Specifications:

Frame rate	50/60 Hz
Image sensor	2 x 4K CMOS
Image display	3D, 2D
Scanning method	progressive scan
Zoom	infinitely variable
Working distance (WD)	**20 – 50 cm**
Magnification (WD 30 cm with 32" 3D monitor)	approx. 8 – 30 x
Cable length	500 cm
Cable routing	straight
Cleaning	wipe disinfection
Sterilization concept	single-use covers
Control concept	IMAGE1 PILOT for intuitive control of all relevant functions (zoom, focus, menu, navigation), 4 buttons for rapid access, 3D wheel
Camera head buttons	freely programmable
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of safety	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

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3D Monitors

26" and 32"

KARL STORZ — ENDOSKOPE



	TM 350 NEW **32" 4K/3D Monitor**	TM 330 NEW **32" 3D Monitor**	TM 263 NEW **26" 3D Monitor**
including:	**Mains Cord** **External 24 VDC Power Supply** 3x **3D Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**	**Mains Cord** **External 24 VDC Power Supply** 3x **3D Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**	**Mains Cord** **External 24 VDC Power Supply** 3x **3D Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4**

Specifications:

Screen diagonal	**32"**	**31.5"**	**26"**
Resolution	3840 x 2160 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Aspect ratio	16:9		
Contrast ratio	1000:1	1400:1	1400:1
Brightness	700 cd/m² (type)	650 cd/m² (type)	580 cd/m² (type)
Video inputs	1x DisplayPort, 1x 12G-SDI, 1x HDMI 2.0, 1x HDMI 1.4b, 2x DVI-D	2x DVI-D, 2x 3G-SDI, 1x Analog RGB (via VGA), 1x S-Video, 1x Composite, 1x Component	2x DVI-D, 2x 3G-SDI, 1x Analog RGB (via VGA), 1x S-Video, 1x Composite, 1x Component
Video outputs	2x DVI-D 1x 12G-SDI	1x DVI-D, 2x 3G-SDI, 1x S-Video, 1x Composite, 1x Component	1x DVI-D, 2x 3G-SDI, 1x S-Video, 1x Composite, 1x Component
RS-232C connector	for external control via RJ-11 adaptor	for external control (D-Sub 9-pin), RS-232C-compatible	for external control (D-Sub 9-pin), RS-232C-compatible
GPI output	–	D-Sub 9-pin	D-Sub 9-pin
Mount	VESA 100		
Power supply	external, 24 V		
Unit properties	n/a	Picture-in-Picture	Picture-in-Picture
Power consumption	approx. 130 W	88.8 W	86.4 W
Power supply	100 – 240 VAC		
Power frequency	50/60 Hz		
Dimensions w x h x d	780 x 511 x 86 mm	760 x 463 x 96 mm	643 × 396 × 80 mm
Weight	approx. 12.3 kg	10.2 kg	8.5 kg
Cleaning	wipe disinfection		
Degree of ingress protection	IP46 front IP20 rear	IP45 front IP32 rear	IP45 front IP32 rear
Monitor Stand	9832 SFH	9826 SF	9826 SF

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USB Silicone Keyboard, with touchpad

Character sets:

20 0402 40DE	German	**20** 0402 40RU	Russian
20 0402 40FR	French	**20** 0402 40SE	Swedish
20 0402 40IT	Italian	**20** 0402 40US	English
20 0402 40PT	Portuguese	**20** 0402 40CH	German, French, Italian
20 0402 40ES	Spanish		



TC 014 — **IMAGE1 PILOT,** control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units, for use with IMAGE1 S™ and VITOM® 3D TH 200



TH 002 — **VITOM® 3D Illuminator,** additional lighting for VITOM® 3D, with 1 adjustable lens, **autoclavable,** for use with VITOM® 3D and light cable



TH 003 — **Protective Cover,** high-grade protective cover, padded imitation leather, for protecting the VITOM® 3D during storage and transport, for use with VITOM® 3D and holding arm



28272 HB — **Articulated Stand,** reinforced version, L-shaped, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 52 cm, with quick release coupling KSLOCK (female)

28172 HR — **Rotation Socket**



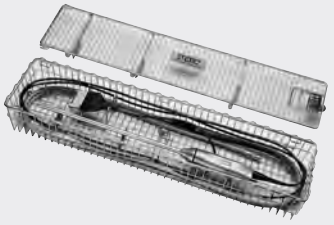
39502 ZH — **Wire Tray, stackable,** with hole plates

39502 LH — **Lid**

39100 SH — **Silicone Grid Insert LARGE DIAMOND GRID**

39100 PS — **Fixation Pins,** package of 12

39360 AS — **Silicone Tie-Downs,** package of 12



39501 XTC — **Wire Tray for Cleaning, Sterilization and Storage** of TIPCAM®1 S 3D LAP Video Endoscopes 26605 AA/BA and one light cable, **autoclavable,** external dimensions (w x d x h): 640 x 150 x 87 mm

39501 STC — **Wire Tray for Cleaning, Sterilization and Storage** of TIPCAM®1 S 3D Video Endoscopes 7240 AA3D/BA3D/FA3D or 28164 AA3D/BA3D/FA3D and one light cable, **autoclavable,** external dimensions (w x d x h): 500 x 150 x 87 mm

Please note: The instruments displayed in the wire tray are not included in delivery.

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	TM 003	**3D Polarization Glasses,** fogless, passive, for use with 3D monitors
	9800 C	**3D Clip-on Glasses,** circularly polarized, for use with 3D monitors
	**20** 0402 82	**USB Flash Drive,** 32 GB
	495 TIP	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm, for use with TIPCAM®
	495 NCSC	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm
	495 VIT	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
	495 ND	**Fiber Optic Light Cable,** with straight connector, diameter 3.5 mm, length 300 cm
	495 NAC	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm

Holding System for VITOM® 3D:

	28272 HSP	**VERSACRANE™ Holding Arm,** high, mobile, spring-supported, with quick release coupling KSLOCK, for use with KARL STORZ clamping jaws. The VERSACRANE™ holding arm is intended for use with VITOM® scopes. including: **Mobile Stand,** with height adjustment
	WARNING:	The VERSACRANE™ holding arm cannot be used with rigid endoscopes!
	28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK

10-18

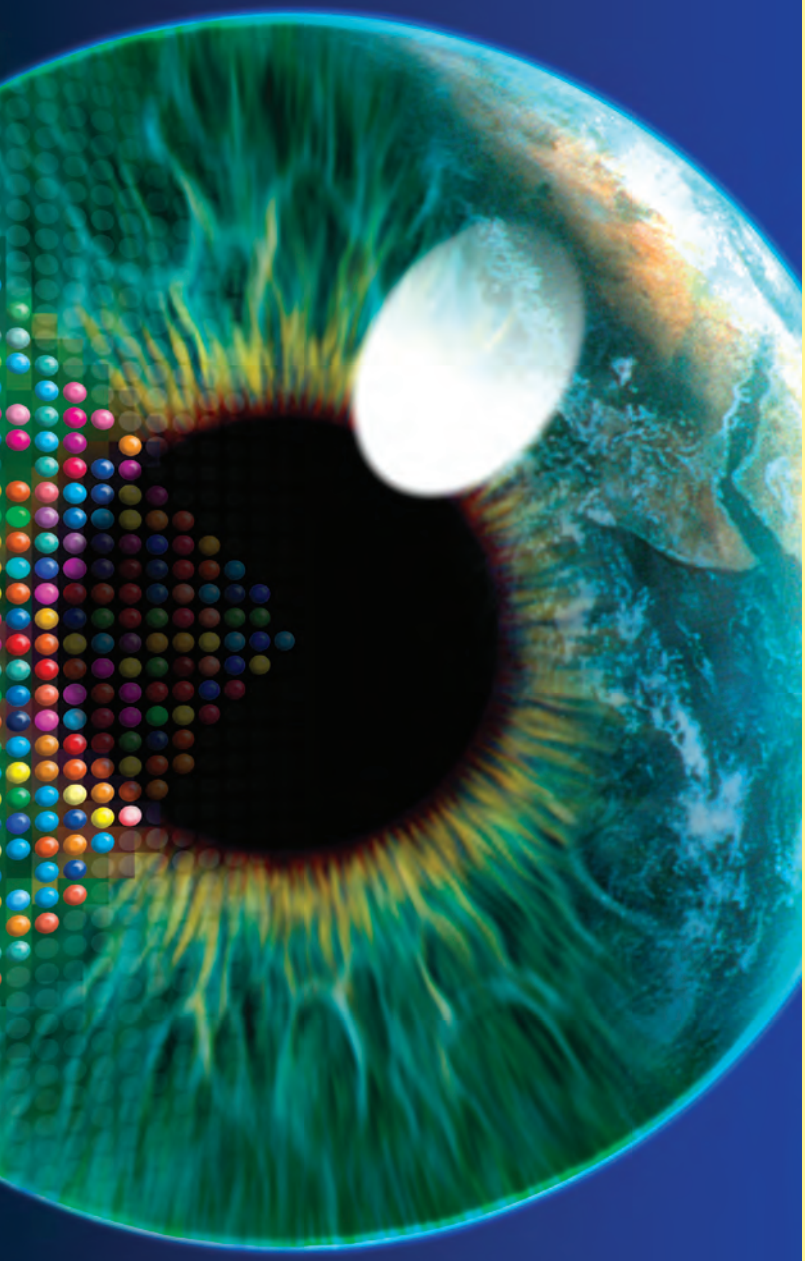
Camera Covers, sterile, for single use

STERILE

	TH 001*	**Cover,** for VITOM® 3D, sterile, for single use, package of 10
	041150-20*	**Cover,** with elasticated tip, 42 x 164 cm, sterile, for single use, package of 20, for use with KARL STORZ holding systems and IMAGE1 PILOT

* mtp

10-18



MOBILE COMBISOLUTIONS
TELE PACK X LED
TELE PACK X GI

PORTABLE ALL-IN-ONE
CAMERA SYSTEM WITH
LED ILLUMINATION 73

OVERVIEW 74-75

TELE PACK X LED 76-77

TELE PACK X GI 78-79

ACCESSORIES 80-82

TELE PACK X LED NEW

Portable all-in-one camera system with LED illumination

The TELE PACK X LED is the ideal solution for doctors' offices, emergency rooms or training facilities, wherever an easy-to-handle and portable endoscopy system is necessary. The compact, portable camera system is suitable for a wide range of applications; requires only a few quick steps to be ready for use in endoscopic applications; and delivers excellent endoscopic images.

The all-in-one camera system combines the following in one unit:
- Monitor
- Camera Control Unit
- Light source
- Documentation unit
- Network capability

Rigid endoscopes and fiberscopes are easy to connect via the coupling mechanism of the TELECAM camera heads.

Flexible video endoscopes can be connected via a special video endoscope adaptor.

Data Management

The integrated data management allows comprehensive documentation of interventions. Multiple USB ports and an SD/SDHC card reader are available for storing data. The SD card can only be used for the network functionality. Thanks to the integrated network function, patient images and videos can be transmitted to the hospital or practice network through various export options. If a keyboard and printer are connected, patient data can be directly entered and printed out.

Image and Video Playback

In addition to data storage, the all-in-one camera system features a gallery function for viewing endoscopic images and playing stored videos.

Stroboscopy as an Option

TELE PACK X LED is particularly suitable for ENT specialists in private practice. Not only is it possible to connect rigid endoscopes, video bronchoscopes and video rhino-laryngoscopes but, with the appropriate accessories, the integrated strobscopy mode can be used for the examination of the vocal cords.



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TELE PACK X LED NEW

Overview

KARL STORZ — ENDOSKOPE

Network Connection



Data Storage

USB Flash Drive



20 0402 82

SD Card



TP 001

TELE PACK X LED



TP 100EN*

Image Display

19" HD Monitor



9619 NB

Patient Data Report

USB Color Printer



549 M

USB Silicone Keyboard



20 0402 40EN

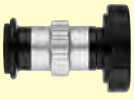
Diagnosis and Treatment

TELECAM C-MOUNT One-Chip Camera Heads



20 2120 34/**20** 2121 34

C-MOUNT Lenses



20 2000 41/**20** 2000 42
20 2000 43/**20** 2000 45

TELECAM One-Chip Camera Heads



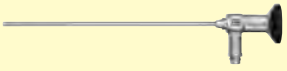
20 2120 30/**20** 2121 30
20 2120 32/**20** 2121 32

Video Connecting Cable



20 2130 70

Rigid Endoscopes



Semiflexible Fiberscopes



Flexible Fiberscopes



Video Endoscopes ENT

11101 VP/VN
11101 VPS/VNS



Video Choledochoscopes Surgery

11292 VP/VPU

Video Endoscopes Urology

11272 VP/VN
11272 VPU/VNU

10-18

***Also available in the following languages:** CH, DE, ES, FR, IT, PL, PT, RU, SE
Further options for the network connection see OR1 catalog

TELE PACK X GI NEW

Overview

KARL STORZ — ENDOSKOPE

Network Connection



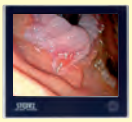
TELE PACK X GI



TP 200EN*

Image Display

19" HD Monitor



9619 NB

Data Storage

USB Flash Drive



20 0402 82

SD Card



TP 001

Patient Data Report

USB Color Printer



549 M

USB Silicone Keyboard



20 0402 40EN

Diagnosis and Treatment

TELECAM C-MOUNT
One-Chip Camera Heads



20 2120 34/**20** 2121 34

TELECAM One-Chip Camera Heads



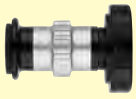
20 2120 30/**20** 2121 30
20 2120 32/**20** 2121 32

Video Connecting Cable



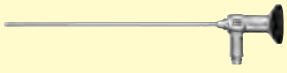
20 2130 70

C-MOUNT Lenses



20 2301 41/**20** 2000 42
20 2000 43/**20** 2301 45

Rigid Endoscopes



PROCTOVISION®



24955/24954 BA/24954 F

RECTOVISION®



24955/24995 GA/24995 BA

Gastroscopes



13820 PKS/NKS,
13821 PKS/NKS

Duodenoscopes



13885 PKS/NKS

Colonoscopes



13924 PKS/NKS,
13925 PKS/NKS,
13924 HPKS/HNKS,
13925 HPKS/HNKS

TROIDL **Flexible Rectoscope**



13912 PKS/NKS

10-18

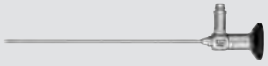
TELE PACK X LED NEW

Endoscopic video unit – compact all-in-one system



	TP 100EN* **TELE PACK X LED,** endoscopic video unit
	incl. LED light source similar to Xenon technology, with integrated digital Image Processing Module
including:	**USB Silicone Keyboard,** with touchpad, US character set **USB Flash Drive,** 32 GB **SD Card,** 32 GB **Mains Cord**

For use with:

TP 100EN* **TELE PACK X LED**		**One-Chip Camera Heads**	**TELECAM** **20** 2120 30/**20** 2121 30, **20** 2120 32/**20** 2121 32, **20** 2120 34/**20** 2121 34, **20** 2301 41/**20** 2000 42, **20** 2000 43/**20** 2301 45
		**Rigid Endoscopes**	
		**Video Endoscopes**	**Compatible Video Endoscopes** see chapter 7, COMPATIBILITY OVERVIEW
		**Video Connecting Cable**	**20** 2130 70

10-18

*** Also available in the following languages:** CH, DE, ES, FR, IT, PL, PT, RU, SE

TELE PACK X LED TP 100 is stroboscopy-capable with the appropriate accessories see page 81

Components/Spare Parts see chapter 13

TELE PACK X LED NEW

Endoscopic video unit – compact all-in-one system

KARL STORZ — ENDOSKOPE

Specifications:

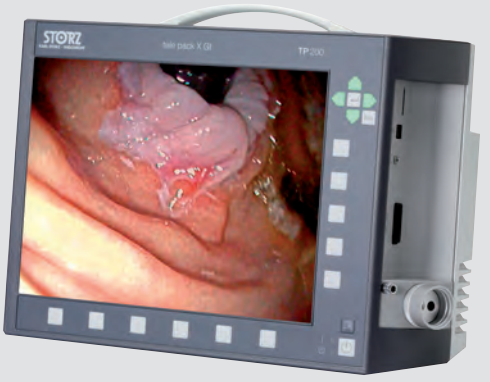
	TP 100EN*
Interfaces	
Video output	1x DVI-D
Video input	1x DVI-D
USB interfaces	6x
Ethernet interface	network connection
SD card slot	1x
Line-in	1x
Line-out	1x
Microphone input	1x
Service interface	1x
Documentation Images	
Image format	JPEG
Documentation Videos	
Video format	MPEG 4
Further Properties	
Integrated light source	LED
LED backlight screen	screen size: 15", resolution: 1024 x 768, contrast: 700:1
Loudspeaker consumption	2 W
Power consumption	100 W
Power frequency	50/60 Hz
Power supply	100 – 240 VAC
Dimensions w x h x d	450 x 350 x 150 mm
Weight	7 kg
Cleaning	wipe disinfection
Degree of ingress protection	IPX0
Protection class	1
Degree of safety	BF

10-18

TELE PACK X GI NEW

Endoscopic video unit – compact all-in-one system

KARL STORZ — ENDOSKOPE



	TP 200EN* **TELE PACK X GI,** endoscopic video unit
	incl. LED light source similar to Xenon technology, with integrated digital Image Processing Module, integrated insufflation pump
including:	**Water Bottle** **Irrigation Adaptor,** for water bottle **USB Silicone Keyboard,** with touchpad, US-English character set **USB Flash Drive,** 32 GB **SD Card,** 32 GB **Mains Cord**

For use with:

TP 200EN* **TELE PACK X GI**		**GI Video Endoscopes**	**Compatible Video Endoscopes** see chapter 7, COMPATIBILITY OVERVIEW
		**Video Connecting Cable**	**20** 2130 70

*** Also available in the following languages:** CH, DE, ES, FR, IT, PL, PT, RU, SE

Components/Spare Parts see chapter 13

10-18

TELE PACK X GI NEW

Endoscopic video unit – compact all-in-one system

KARL STORZ — ENDOSKOPE

Specifications:

	TP 200EN*
Interfaces	
Video output	1x DVI-D
Video input	1x DVI-D
USB interfaces	6x
Ethernet interface	network connection
SD card slot	1x
Line-in	1x
Line-out	1x
Microphone input	1x
Service interface	1x
Documentation Images	
Image format	JPEG
Documentation Videos	
Video format	MPEG 4
Further Properties	
Integrated light source	LED
LED backlight screen	screen size: 15", resolution: 1024 x 768, contrast: 700:1
Loudspeaker consumption	2 W
Pumpe	**integrated**
Power consumption	100 W
Power frequency	50/60 Hz
Power supply	100 – 240 VAC
Dimensions w x h x d	450 x 350 x 150 mm
Weight	7 kg
Cleaning	wipe disinfection
Degree of ingress protection	IPX0
Protection class	1
Degree of safety	BF

10-18

	**USB Silicone Keyboard,** with touchpad Character Sets: **20** 0402 40DE German **20** 0402 40FR French **20** 0402 40IT Italian **20** 0402 40PT Portuguese **20** 0402 40ES Spanish **20** 0402 40RU Russian **20** 0402 40SE Swedish **20** 0402 40US English **20** 0402 40CH German, French, Italian	
	549 M	**USB Color Printer,** power supply 100 – 240 VAC, 50/60 Hz, including mains cord, for use with IMAGE1 S™, IMAGE1 ICM from software version 470206-328 BI and AIDA® compact NEO
	**20** 0400 86 **20** 0400 89 **20** 0402 86	**DVI-D Connecting Cable,** length 200 cm **Same,** length 300 cm **Same,** length 750 cm
	TC 010	**Two-Pedal Footswitch USB,** as of software version 6.1.1
	**20** 0143 30	**Two-Pedal Footswitch,** one-stage
	**20** 2130 70	**Video Connecting Cable,** for use between KARL STORZ video endoscopes and TELECAM Camera Control Units (CCU) or TELE PACK video units
	9104250	**TELE PACK X Case,** including foam part
	**20** 0402 82	**USB Flash Drive,** 32 GB
	TP 001	**SD Card,** 32 GB, for use with all TELE PACK X and TELE PACK X LED models
	**20** 0402 76 **20** 0400 76	**RJ-45 Network Cable,** length 100 cm **RJ-45 Network Cable,** length 500 cm
	W21067	**OR1™ Network Isolator,** according to EN 60601, for galvanic decoupling of units with RJ-45 network connection (1 GBit)
	**20** 0450 30	**Adaptor,** for TELE PACK X, in combination with KARL STORZ light cables and KARL STORZ video endoscopes
	W21341	**OR1™ Radio Microphone Headset**

10-18

TELE PACK X LED NEW

Accessories for stroboscopy

KARL STORZ — ENDOSKOPE

	**20** 0450 31	**Light Adaptor for Video Endoscopes,** for TELE PACK X in combination with KARL STORZ Video Bronchoscopes 11900 BP/BN or TELE PACK VET X in combination with KARL STORZ video gastroscopes
	13992 BS	**Water Bottle,** 250 ml
	**40** 1600 40	**Stroboscopy Kit,** for use with TELE PACK X LED including: **Footswitch TELE PACK X LED** **Microphone Set**
	**40** 1600 31	**Microphone Set,** for use with TELE PACK X LED including: **Microphone Fitting** **Microphone Holder** **Connector for Microphone Membrane**

Components/Spare Parts see chapter 13



40 1600 33 **TELE PACK X LED Footswitch,** footswitch with USB port and integrated activation key for stroboscopy function (plug & play), for use with TELE PACK X LED

Camera Covers, sterile, for single use

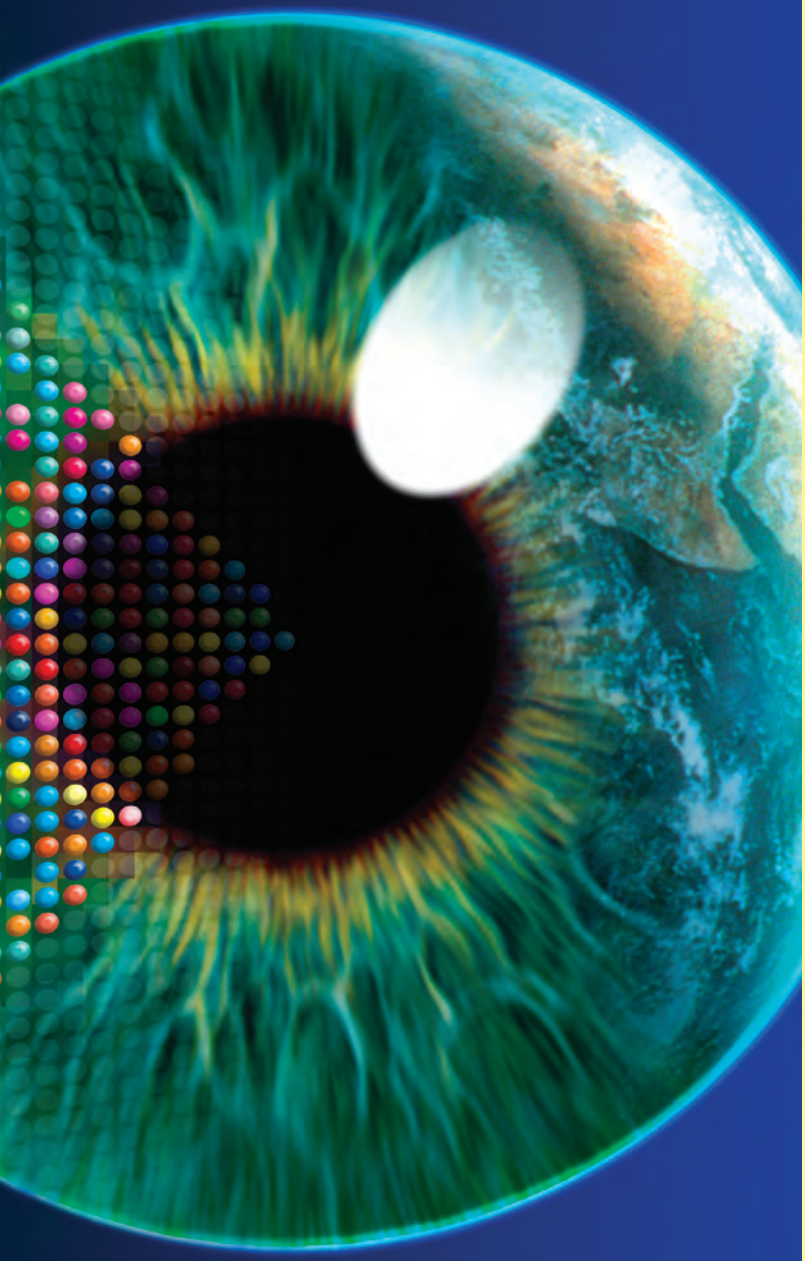
STERILE

040112-40*	**Camera Cover,** folded inside out, 13 x 242 cm, sterile, for single use, package of 40
040113-50*	**Camera Cover,** telescopic folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 50
040114-15*	**Camera Cover,** rolled, with plastic insertion aid, 17 x 242 cm, sterile, for single use, package of 15
040115-40*	**Camera Cover,** telescopic folding with cardboard insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040169-40*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040170-25*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 18 x 242 cm, sterile, for single use, package of 25

* mtp

Further Products for Single Use see MTP SINGLE-USE PRODUCTS catalog

10-18



OFFICE PLATFORM

C-HUB® II

THE EASY IMMEDIATE SOLUTION FOR ANY PRACTICE 84

OVERVIEW 85-87

CAMERA CONTROL UNIT 88

ACCESSORIES 90-91

C-CAM®

ONE-CHIP CAMERA HEAD 89

ACCESSORIES 90- 91

SMART SCOPE

ENDOSCOPE SMARTPHONE ADAPTOR 92-95

C-HUB® II

The easy immediate solution for any practice

This compact camera control unit is compatible with a great number of rigid and semiflexible endoscopes, fiberscopes and video endoscopes. With this unit, endoscopic examinations can be quickly and easily performed in any practice for a wide range of disciplines.

As a Plug & Play device, the camera control unit is cost-effective and easy to use which makes the C-HUB® II very attractive for use in further training.



10-18

C-HUB® II

Overview ENT

PCs, Laptops via USB



Monitors via HDMI/S-Video



C-HUB® II, Camera Control Unit



20 2903 20

USB Otoscope



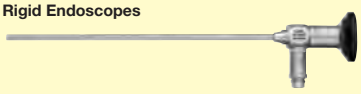
121210

C-CAM® Camera Head



20 2901 32

Rigid Endoscopes



Flexible Fiberscopes



CMOS-Video Otoscope



121200

CMOS Video Rhino-Laryngoscope



11102 CM

Battery Light Sources



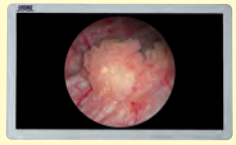
11301 D1/D3/D4/DE/DF/DG
and further light sources, e.g.,
20 1612 01 Cold Light Fountain LED NOVA 150

10-18

PCs, Laptops via USB



Monitors via HDMI/S-Video



C-HUB® II, Camera Control Unit



20 2903 20

C-MAC® Monitor



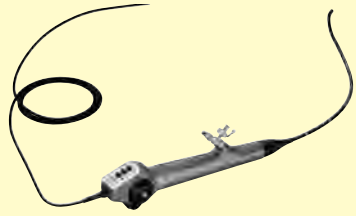
8403 ZX

C-CAM® Camera Head



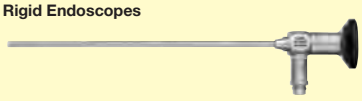
20 2901 32

CMOS Video Cysto-Urethroscopes



11272 V, 11272 VU

Rigid Endoscopes



Flexible Fiberscopes



Fiber Optic Light Cable



495 NA

Cold Light Fountains



XENON 175 SCB	**20** 1321 01-1
POWER LED 175 SCB	**20** 1614 01-1
LED NOVA 150	**20** 1612 01

10-18

C-HUB® II

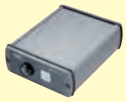
Overview Anesthesiology



OR1™



Monitor



C-HUB® II, Camera Control Unit



C-MAC® Monitor



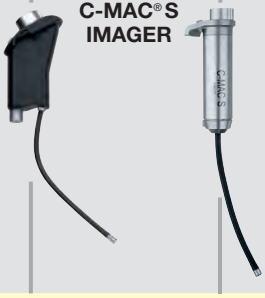
C-MAC® PM



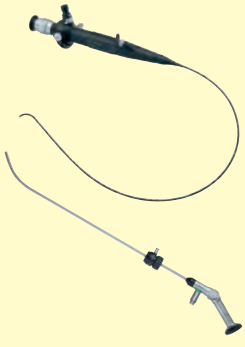
C-MAC® Connecting Cable



C-CAM®, Camera Head



C-MAC® S IMAGER



Endoscopes/Fiberscopes (eyepiece versions)



Flexible Intubation Video Endoscopes

for single use

Children

Adults



C-MAC® Video Laryngoscopes



C-MAC® VS

10-18

C-HUB® II NEW

Camera Control Unit

KARL STORZ — ENDOSKOPE

Office *line*



	20 2903 01 **C-HUB® II Camera Control Unit**
including:	**C-HUB® Power Supply** **S-Video (Y/C) Connecting Cable** **USB Connecting Cable** **Video Editor**
for use with:	● **C-CAM® Camera Head** ● **Video Endoscopes** ● **Electronic Module** ● **S-IMAGER**

Specifications:

Video outputs	S-Video, HDMI, USB
Power frequency	50/60 Hz
Dimensions w x h x d	111 x 44 x 140 mm
Weight	420 g
Power supply	5 V
Cleaning	wipe disinfection
Protection class	1
Degree of safety	BF

10-18

Components/Spare Parts see chapter 13

C-CAM®

One-Chip Camera Head

Office *line*



	20 2901 32 **C-CAM® Camera Head**
for use with:	● **C-HUB® II Camera Control Unit** ● **C-MAC®**

Specifications:

Frame rate	50/60 Hz
Image sensor	1-chip
Resolution	640 x 480 pixels
Lens	fixed focus
Focal length	f = 20 mm
Dimensions w x h x l	28 x 28 x 81.5 mm
Weight	118 g
Cable length	195 cm
Cable conduit	straight
Grip mechanism	standard eyepiece adaptor
Reprocessing	EO sterilization, H_2O_2 (hydrogen peroxide)
Protection class	1
Degree of safety	BF

10-18

	**20** 9190 10	**DVI to HDMI Cable,** length 100 cm
	547 S	**S-Video (Y/C) Connecting Cable,** length 180 cm
	**20** 2000 73	**USB Connecting Cable,** length 180 cm
	**20** 9190 50	**HDMI to HDMI Cable,** length 500 cm

Battery Light Sources

	11301 D1	**Battery Light Source LED for Endoscopes,** with fine screw thread, boost mode for temporary increase in brightness, burning time > 120 min, weight approx. 78 g, for use with KARL STORZ endoscopes
	11301 D3	**Same,** with coarse thread
	11301 D4	**Battery Light Source LED for Endoscopes,** with fast screw thread, boost mode for temporary increase in brightness, burning time > 120 min, brightness > 110 lm / > 150 klx, weight approx. 150 g ready for use, **suitable for wipe disinfection,** for use with KARL STORZ endoscopes
	11301 DE	**Battery Light Source LED for Endoscopes,** rechargeable, with click connection, boost mode for temporary increase in brightness, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g, **suitable for wipe disinfection**
	11301 DF	**Same,** with fast screw thread
	11301 DG	**Charging Unit,** for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection,** for use with Battery Light Source LED 11301 DE and DF
	**20** 1612 01	**Cold Light Fountain LED NOVA 150,** power supply 100 – 240 VAC, 50/60 Hz

10-18

Camera Covers, sterile, for single use

STERILE

040112-40*	**Camera Cover,** folded inside out, 13 x 242 cm, sterile, for single use, package of 40
040113-50*	**Camera Cover,** telescopic folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 50
040114-15*	**Camera Cover,** rolled, with plastic insertion aid, 17 x 242 cm, sterile, for single use, package of 15
040115-40*	**Camera Cover,** telescopic folding with cardboard insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040169-40*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 40
040170-25*	**Camera Cover,** with elastic telescope opening, telescope folding with paper insertion aid, 18 x 242 cm, sterile, for single use, package of 25

* mtp

Further Products for Single Use see MTP SINGLE-USE PRODUCTS catalog

SMART SCOPE NEW

In conjunction with KARL STORZ endoscopes, the smartphone adaptor from KARL STORZ allows straightforward documentation of endoscopic images on a smartphone.

The data transfer function on the smartphone enables images and videos to be easily transferred to the computer system in the doctor's office.

In addition to various smartphones models, the SMART SCOPE can be used with all standard eyepieces from KARL STORZ. This ease of use provides the flexibility required in any setting – whether in the doctor's office or for consultation purposes.



10-18

iPhone 6/6s Holder, iPhone 7/8 Holder



20 2881 00-I6
20 2881 00-I7

Galaxy S6/S7/S8 Holder



20 2881 00-S6
20 2881 00-S7
20 2881 00-S8

SMART SCOPE, smartphone adaptor

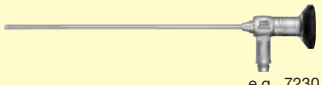


20 2880 01

Rigid Endoscopes



e.g., 8700 CKA



e.g., 7230 AA



e.g., 1215 AA

Fiberscopes



e.g., 11101 RP

µ-PULSAR



40 1500 01

Battery Light Source



11301 D4

Compatible Camera Heads and Video Endoscopes see chapter 7, COMPATIBILITY OVERVIEW

10-18

SMART SCOPE NEW



with integrated tripod socket

	20 2880 01 **SMART SCOPE,** smartphone adaptor

	20 2880 01-I6 **SMART SCOPE with iPhone 6/6s Holder**	**20** 2880 01-I7 **SMART SCOPE with iPhone 7/8 Aluminum Holder**
	for coupling a smartphone camera to an endoscope, for straightforward documentation of endoscopic images or videos on a smartphone, compatible with all endoscopes with standard eyepieces	

	20 2880 01-S6 **SMART SCOPE with Galaxy S6 Holder**	**20** 2880 01-S7 **SMART SCOPE with Galaxy S7 Holder**	**20** 2880 01-S8 **SMART SCOPE with Galaxy S8 Holder**
	for coupling a smartphone camera to an endoscope, for straightforward documentation of endoscopic images or videos on a smartphone, compatible with all endoscopes with standard eyepieces		

Specifications:

Lens	fixed focus
Diameter	32 mm
Length	73 mm
Grip mechanism	standard eyepiece adaptor

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	**20** 2881 00-I6 **iPhone 6/6s Holder,** for SMART SCOPE **20** 2881 00-I7 **iPhone 7/8 Holder,** for SMART SCOPE **20** 2881 00-S6 **Galaxy S6 Holder,** for SMART SCOPE **20** 2881 00-S7 **Galaxy S7 Holder,** for SMART SCOPE **20** 2881 00-S8 **Galaxy S8 Holder,** for SMART SCOPE
	**96** 2200 82 **Microfiber Bag,** for SMART SCOPE
	11301 D4 **Battery Light Source LED**



VISUALIZATION SYSTEMS FOR OPEN AND MICRO SURGERY

VITOM® 2D:

2D VISUALIZATION
FOR OPEN SURGERY
WITH MINIMAL ACCESS 98-102

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VITOM® NIR/ICG 104-106

VITOM® PDD 104, 107-108

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VITOM® 3D:

3D VISUALIZATION
FOR OPEN SURGERY
WITH MINIMAL ACCESS 110

OVERVIEW 111

VITOM® 3D 112-115

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INTRODUCTION 116

OVERVIEW 117

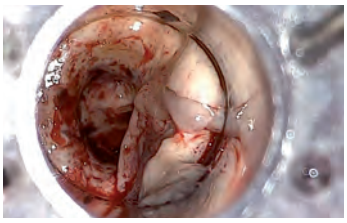
IMAGE1 S™ THREE-CHIP FULL HD
C-MOUNT CAMERA HEAD 118

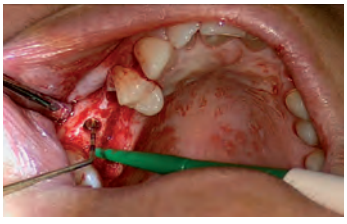
TV ADAPTORS 119-121

VITOM® 2D

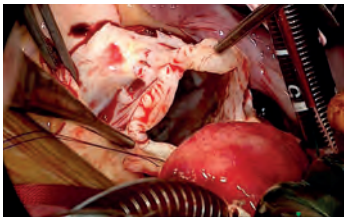
Potential applications

The VITOM® system can be used for many specialties in open surgery. In addition to visualization under white light, the VITOM® system also supports the option for fluorescence imaging (NIR/ICG and PDD).

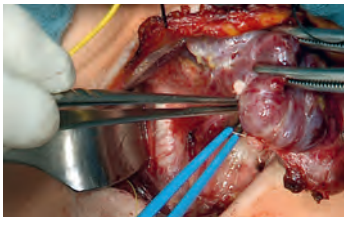














Port-based interventions
see NEUROSURGERY catalog

Dysgnathia surgery, flap preparation
see ORAL AND MAXILLOFACIAL SURGERY catalog

Open rhinoplasty, septoplasty, adenotomy
see ENDOSCOPES AND INSTRUMENTS FOR ENT, ESOPHAGOSCOPY – BRONCHOSCOPY catalog

Mitral valve surgery, pediatric heart surgery
see ENDOSCOPES AND INSTRUMENTS FOR CARDIOVASCULAR SURGERY catalog

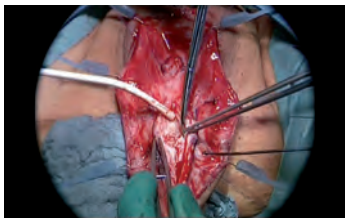
Mini-thoracotomy
see THORAX catalog

Open thyroidectomy
see LAPAROSCOPY IN SURGERY, GYNECOLOGY, UROLOGY catalog

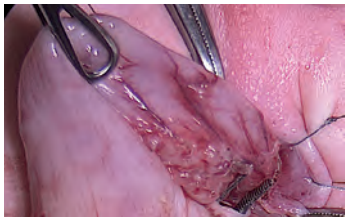
Loop conization, colposcopy
see GYNECOLOGY catalog

11-16i

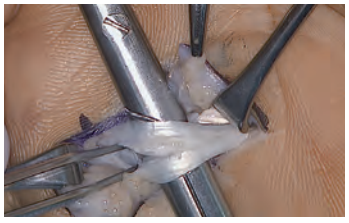
Urethral reconstruction, hypospadias/epispadias correction, artificial sphincter implantation, open prostatectomy
see UROLOGY catalog



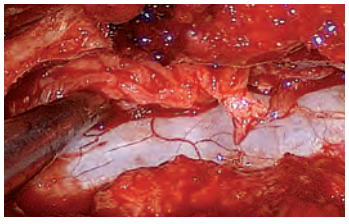
Artificial sphincter implantation, rectal prolapse
see PROCTOLOGY catalog



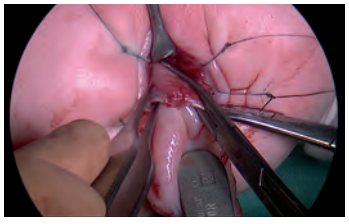
Dupuytren's contracture, ulnar shortening osteotomy, arthroplasty
see ARTHROSCOPY AND SPORTS MEDICINE catalog



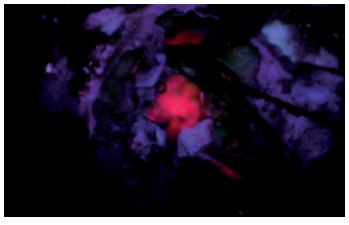
Herniated discs, spinal stenosis, spondylodesis
see SPINE SURGERY catalog



Anorectal malformation, hypospadias correction, epispadias correction, ambiguous genitalia
see PEDIATRIC SURGERY catalog



Display of glioblastoma in neurosurgery
see FLUORESCENCE IMAGING WITH PDD



Perfusion assessment of anastomoses or free flaps, visualization of sentinel lymph nodes
see FLUORESCENCE IMAGING WITH NIR/ICG



11-16

VITOM® 2D

2D visualization for open surgery with minimal access

KARL STORZ — ENDOSKOPE

Brilliant Visualization

The IMAGE1 S™ camera system provides optimal support for all interventions in minimally invasive and open surgery. VITOM® provides excellent depth of field, optimal magnification as well as good contrast and excellent color reproduction, which are the ideal prerequisites for the best possible visualization of interventions in open surgery.

Documentation

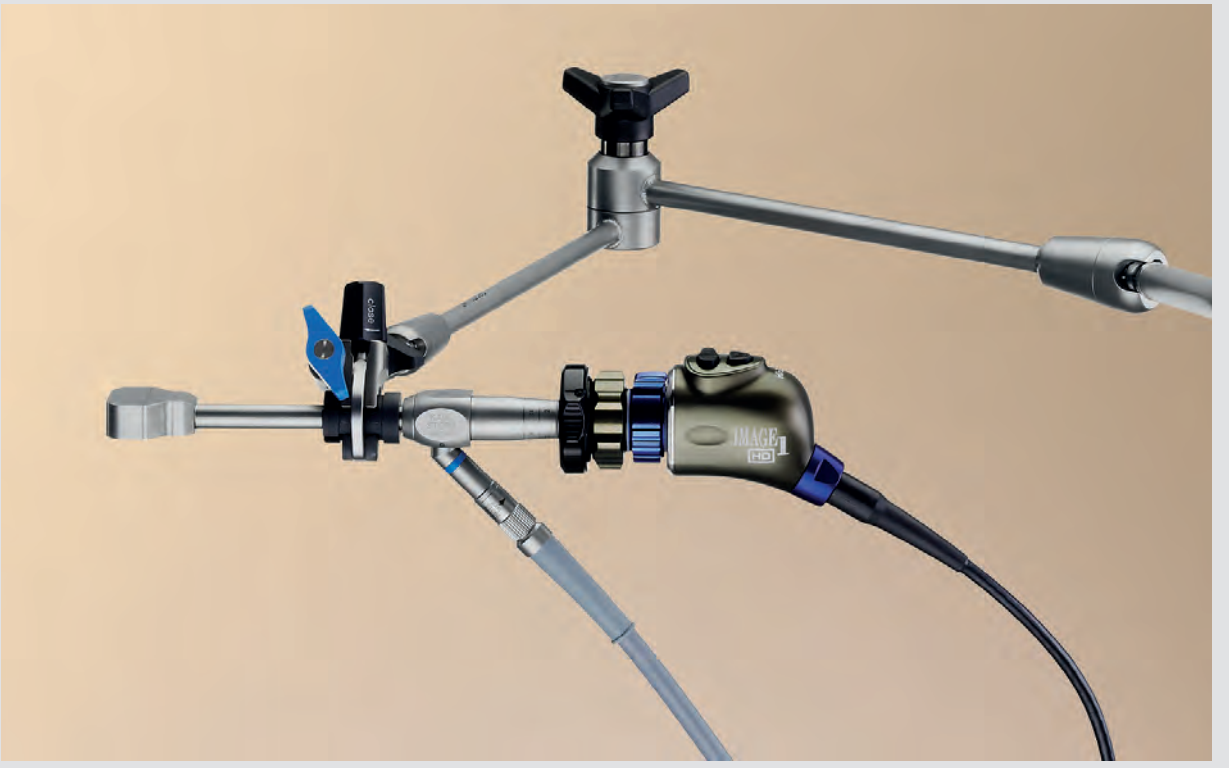
The VITOM® system is perfectly suited for the documentation of interventions in open surgery with minimal access.

Ergonomic Work

Enhanced images of the open surgical procedure can be observed via a monitor from a convenient distance by the surgeon, the assistant as well as the entire OR team. The system offers everyone present in the OR an optimal view of the surgical field.

Teaching and Training

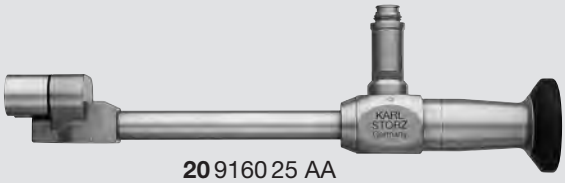
The VITOM® system is an excellent tool for teaching and training purposes as the system offers an unrestricted and magnified view of the surgical site both inside and outside the OR.



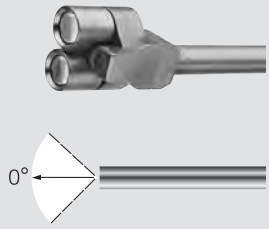
5-16

VITOM® Telescope 0°

The VITOM® telescope 0° is particularly suitable for brilliant documentation of open surgeries. Thanks to its design and 0° direction of view, the telescope can be easily positioned by an assistant.



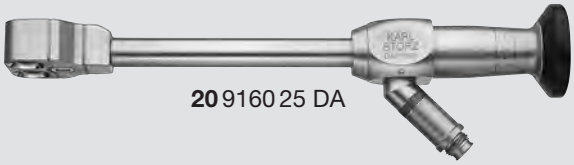
20 9160 25 AA



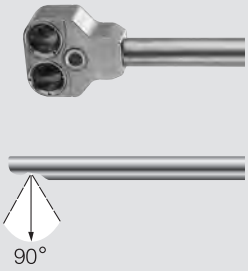
20 9160 25 AA **VITOM® Telescope 0° with Integrated Illuminator,** VITOM® HOPKINS® straight forward telescope 0°, working distance 25 – 75 cm, length 11 cm, **autoclavable,** with fiber optic light transmission incorporated and condensor lenses, color code: green

VITOM® Telescope 90°

The VITOM® telescope with a 90° direction of view is recommended for the visualization of an intervention as it allows flexible and ergonomic positioning above the surgical site. This is a particular advantage for operating surgeons who wish to benefit from a clear and enlarged view on the monitor during a procedure.



20 9160 25 DA



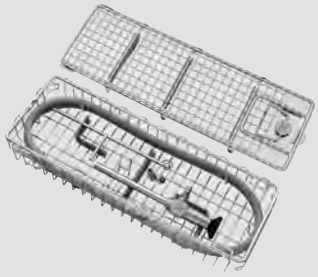
20 9160 25 DA **VITOM® Telescope 90° with Integrated Illuminator,** VITOM® HOPKINS® telescope 90°, working distance 25 – 75 cm, length 11 cm, **autoclavable,** with fiber optic light transmission incorporated and condensor lenses, color code: blue

Note: VITOM® is always used with a holding system.

Holding Systems see chapter 11

Specifications see page 109

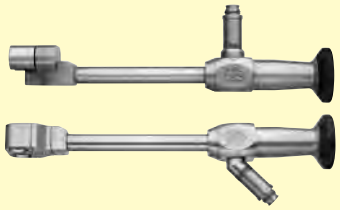
Components/Spare Parts see chapter 13

		VITOM® Scope 0° with Integrated Illuminator	VITOM® Scope 90° with Integrated Illuminator
		20 9160 25 AA	**20** 9160 25 DA
			
495 TIP	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm, for use with TIPCAM®	●	●
			
495 NVC	**Fiber Optic Light Cable,** with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm	●	–
			
39501 A2	**Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light cable, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 352 x 125 x 54 mm, for rigid endoscopes up to diameter 10 mm and working length 20 cm	●	●

5-16

Please note: The instruments displayed are not included in the sterilization and storage tray.

VITOM® Scope 0° with Integrated Illuminator
VITOM® Scope 90° with Integrated Illuminator



20 9160 25 AA/DA

Clamping Cylinder



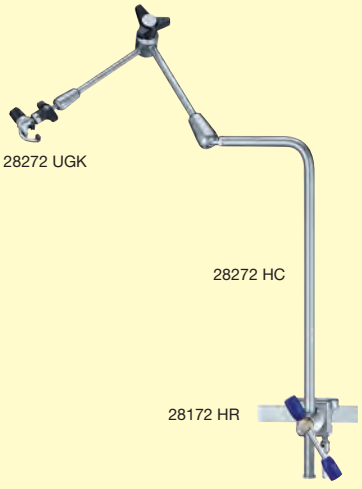
28272 CN

Fiber Optic Light Cable



495 TIP

Mechanical Holding Arm



28272 UGK

28272 HC

28172 HR

IMAGE1 S™ 4U One-Chip 4K UHD Camera Head



TH 120

Cold Light Fountain POWER LED 300 SCB



TL 300

IMAGE1 S™ Camera Systems



TC 201EN
TC 304

31" 4K Monitor



TM 341, TM 342

VITOM® NIR/ICG and PDD

Visualization system for fluorescence imaging in open surgery

KARL STORZ — ENDOSKOPE

OPAL1® – Fluorescence imaging based on the IMAGE1 S™ camera platform

Thanks to the OPAL1® technologies based on the IMAGE1 S™ camera platform, KARL STORZ is able to offer better visualization of anatomical structures or malignancies that are hidden to the naked eye under white light in minimally invasive and open surgery.

Near-infrared (NIR/ICG) fluorescence imaging allows the assessment of organ and tissue perfusion, e.g., following anastomoses or bypasses. It also makes it possible to display the bile duct anatomy during cholecystectomies or in the case of suspected lymphatic leakage. Furthermore, this technology can be used to visualize the lymphatic system, e.g., for the purposes of lymph node localization. The fluorescent dye indocyanine green (ICG) is used in this case.



Photodynamic diagnosis (PDD) is able to detect the high concentrations of fluorescent porphyrine products that indicate bladder tumors. It also supports urologists in the diagnosis and treatment of bladder cancer as demonstrated by the decrease in recurrence rates.

At the core of these fluorescence procedures is the IMAGE1 S™ camera platform which, in combination with various light sources and telescopes, forms the basis for OPAL1® technologies for fluorescent imaging. This combination offers physicians additional visual support in FULL HD image quality that is able to aid decision-making processes on a regular basis.

Fields of application for VITOM® II NIR/ICG:

- Perfusion assessment in open surgery
- Visualization of the lymphatic system*
- Bile duct visualization

OPAL1® NIR/ICG

Fields of application for VITOM® II PDD:

- Fluorescence-guided resection of high-grade gliomas

OPAL1® PDD

5-16

*Please verify that the fluorescent dye indocyanine green is approved for the respective indication in your country.

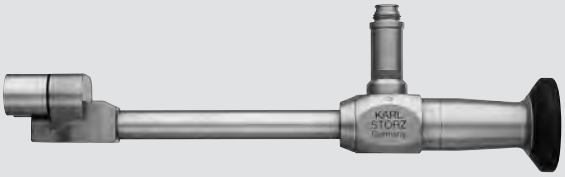
Fluorescence Diagnosis see chapter 9, COLD LIGHT FOUNTAINS AND LIGHT CABLES

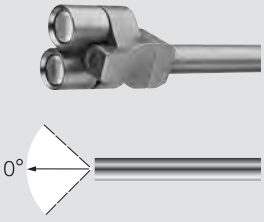
VITOM® II NIR/ICG

Visualization system for near infrared (NIR/ICG) fluorescence imaging in open surgery

KARL STORZ — ENDOSKOPE

OPAL1® NIR/ICG





20 9160 25 AGA **VITOM® II NIR/ICG Telescope 0°,** with integrated illuminator and observation filter for fluorescence diagnostics with ICG, HOPKINS®, working distance 25 – 75 cm for white light, 20 – 30 cm for fluorescence applications, length 11 cm, **autoclavable,** with fiber optic light transmission incorporated and condensor lenses, color code: green



495 NCSC **Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm

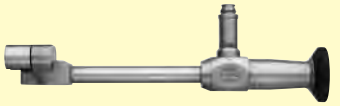
The IMAGE1 S™ platform is recommended for NIR/ICG applications.
For suitable light sources for NIR/ICG applications see chapter 9, COLD LIGHT FOUNTAINS AND LIGHT CABLES
Components/Spare Parts see chapter 13

5-16

VITOM® II NIR/ICG

Overview

VITOM® II NIR/ICG Telescope with Integrated Illuminator



20 9160 25 AGA

Clamping Cylinder



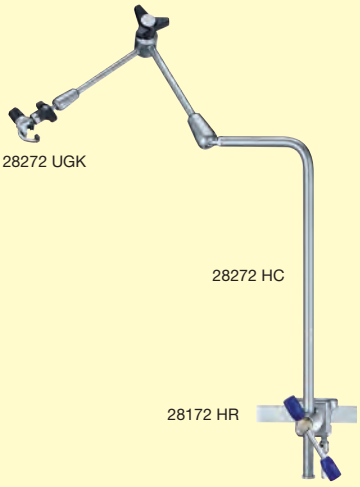
28272 CN

Fluid or Fiber Optic Light Cables



495 FR
495 NCSC

Mechanical Holding Arm



28272 UGK

28272 HC

28172 HR

IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head



TH 102

Cold Light Fountain D-LIGHT P SCB



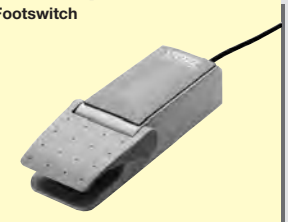
20 1337 01-1

IMAGE1 S™ Camera Systems



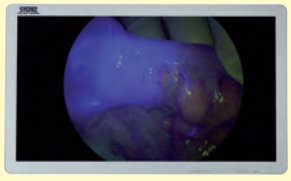
TC 200EN
TC 300

One-Pedal Footswitch



20 0141 30

27" FULL HD Monitor



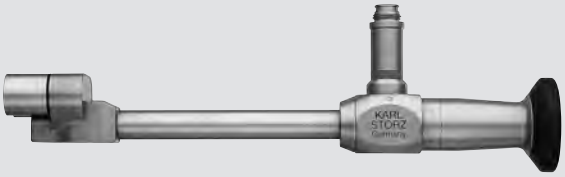
TM 220

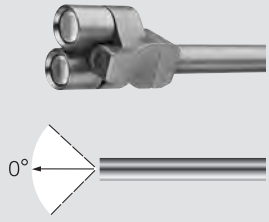
5-16

VITOM® PDD

Visualization system for open surgery with minimal access with OPAL1® technology

KARL STORZ — ENDOSKOPE





20 9160 25 AIA — **VITOM® II PDD Telescope 0°,** with integrated illuminator and observation filter for fluorescence diagnostics with PDD, HOPKINS®, working distance 25 – 75 cm for white light, 20 – 30 cm for fluorescence applications, length 11 cm, **autoclavable,** with fiber optic light transmission incorporated and condensor lenses, color code: green



495 FR — **Fluid Light Cable,** diameter 5 mm, length 250 cm

The IMAGE1 S™ platform is recommended for PDD applications.

For suitable light sources for PDD applications see chapter 9, COLD LIGHT FOUNTAINS AND LIGHT CABLES

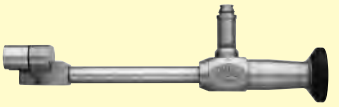
Components/Spare Parts see chapter 13

5-16

VITOM® PDD

Overview

VITOM® II PDD Telescope 0° with Integrated Illuminator



20 9160 25 AIA

Clamping Cylinder



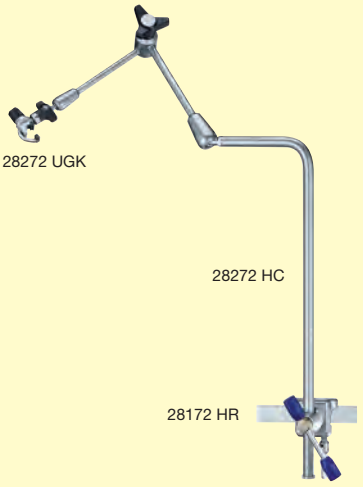
28272 CN

Fluid Light Cable



495 FR

Mechanical Holding Arm



28272 UGK

28272 HC

28172 HR

One-Chip FULL HD Camera Head



TH 112

Cold Light Fountain D-LIGHT C/AF SCB



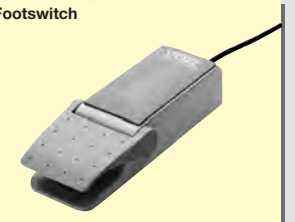
20 1336 01-133

IMAGE1 S™ Camera Systems



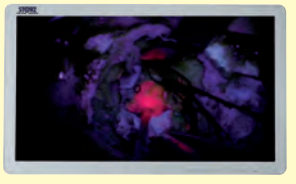
TC 200EN
TC 301

One-Pedal Footswitch



20 0141 30

27" FULL HD Monitor



TM 220

5-16

Working distance:	25 – 75 cm		
Depth of view at working distance of:	**25 cm**	**50 cm**	**75 cm**
Depth of view:	approx. 3.5 cm	approx. 7 cm	approx. 10 cm
Field of view at working distance of:	**25 cm**	**50 cm**	**75 cm**
IMAGE1 S™ H3-Z camera zoom 1x	5 cm	10 cm	15 cm
IMAGE1 S™ H3-Z camera zoom 2x	3.5 cm	7 cm	10.5 cm
Reproduction scale at working distance of:	**25 cm**	**50 cm**	**75 cm**
26" Monitor:			
H3-Z camera zoom 1x	approx. 8x	approx. 4x	approx. 3x
H3-Z camera zoom 2x	approx. 16x	approx. 8x	approx. 6x
42" Monitor:			
H3-Z camera zoom 1x	approx. 14x	approx. 7x	approx. 5x
H3-Z camera zoom 2x	approx. 28x	approx. 14x	approx. 10.5x
52" Monitor:			
H3-Z camera zoom 1x	approx. 17x	approx. 8x	approx. 6x
H3-Z camera zoom 2x	approx. 34x	approx. 16x	approx. 12x

Note:
A working distance of max. 30 cm is recommended in order to receive an optimal signal for fluorescence applications with VITOM® II NIR/ICG and VITOM® PDD.

5-16

Technical specifications are subject to change.

VITOM® 3D

3D visualization for microsurgery and open surgery

The application possibilities of the VITOM® 3D are similar to that of the operating microscope. The surgeon can work comfortably with VITOM® 3D via a 3D monitor which allows for a relatively free choice of working positions. The most important functions are controlled via the IMAGE1 PILOT, which is mounted on the OR table in the direct vicinity of the surgeon. The VITOM® 3D system provides many surgical disciplines with a revolutionary solution for the visualization of micro-surgical and open surgical interventions.

The VITOM® 3D fits seamlessly into the IMAGE1 S™ platform and can be used with this system. The visualization and documentation of surgeries can thus be carried out with an existing endoscopy tower. This ideally supports combined work with endoscopes as in, for example, endoscopically assisted microsurgery (EAM).

Benefits at a glance:

- Ergonomic work – the user is not confined to the eyepiece
- Improved workflow – the entire OR team can view the procedure in the same image quality as the surgeon
- Flexible, diverse application possibilities – from visualization and documentation to education and training
- Beneficial for endoscopically assisted microsurgery as it is possible to combine VITOM® 3D with endoscopes
- Small, lightweight and portable system
- Economic synergetic effects from 3D visualization for microsurgery and open surgery as well as endoscopy based on the IMAGE1 S™ platform



5-16

VITOM® 3D

Overview

VITOM® 3D, with integrated illumination
Cover, for VITOM® 3D, sterile



TH 200
TH 001*

Holding Arm for VITOM® 3D



28272 HSP

Fiber Optic Light Cables



495 TIP
495 VIT

IMAGE1 PILOT
IMAGE1 PILOT Sterile Cover



TC 014
041150-20*

IMAGE1 S™ Camera Systems



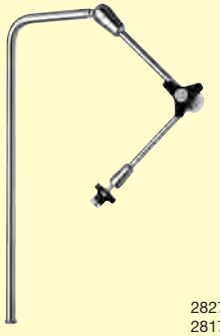
TC 200EN
TC 302

Cold Light Fountain POWER LED 300 SCB



TL 300

Holding Arm for IMAGE1 PILOT



28272 HB
28172 HR

3D Monitors



TM 330, TM 350, TM 263

3D Polarization Glasses
3D Clip-on Glasses



TM 003
9800 C

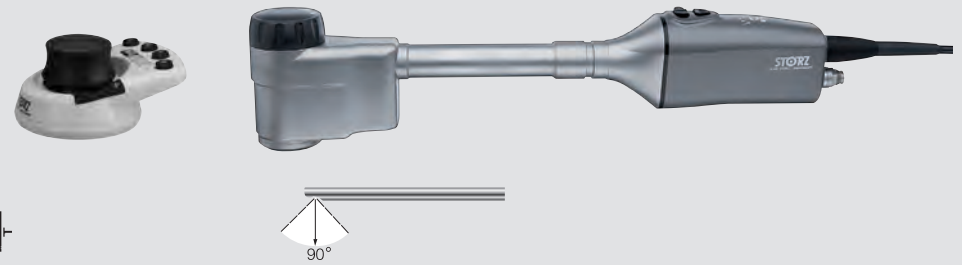
* mtp

VITOM® 3D

3D visualization for microsurgery and open surgery

KARL STORZ — ENDOSKOPE

CLARA CHROMA SPECTRA 3D



TH 200	**VITOM® 3D,** with zoom and focus function, integrated illumination and horizontal alignment, working distance 20 – 50 cm, fiber optic light transmission incorporated, suitable for wipe disinfection, for use with IMAGE1 S D3-LINK® TC 302 and IMAGE1 PILOT TC 014
TC 014	**IMAGE1 PILOT,** control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units, for use with IMAGE1 S™ and VITOM® 3D TH 200

Specifications:

Frame rate	50/60 Hz
Image sensor	2 x 4K CMOS
Image display	3D, 2D
Scanning method	progressive scan
Zoom	infinitely variable
Working distance (WD)	**20 – 50 cm**
Magnification (WD 30 cm with 32" 3D monitor)	ca. 8 – 30 x
Cable length	500 cm
Cable routing	straight
Cleaning	wipe disinfection
Sterilization concept	single-use covers
Control concept	IMAGE1 PILOT for intuitive control of all relevant functions (zoom, focus, menu, navigation), 4 buttons for rapid access, 3D wheel
Camera head buttons	freely programmable
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of protection	in conjunction with the IMAGE1 S™ camera control unit: CF-Defib

IMAGE1 PILOT is required for VITOM® 3D.

VITOM® 3D and IMAGE1 PILOT are always used with a holding system.

Please note: Special clamping jaws are available for mounting VITOM® 3D to the holding system.

Holding Systems see chapter 11

5-16

VERSACRANE™ Holding System – for the convenient positioning of VITOM®



28272 HSP

28272 HSP	**VERSACRANE™ Holding Arm,** high, mobile, spring-supported, with quick release coupling KSLOCK, for use with KARL STORZ clamping jaws. The VERSACRANE™ holding arm is intended for use with VITOM® scopes. including: **Mobile Stand,** with height adjustment
WARNING:	The VERSACRANE™ holding arm cannot be used with rigid endoscopes!

Clamping Jaws and Accessories for VITOM® 3D

28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK
TH 001*	**Cover,** for VITOM® 3D, sterile, for single use, package of 10

STERILE

* mtp

Note: The 550 cm long Light Cable 495 VIT is necessary for the use of VERSACRANE™.
Components/Spare Parts see chapter 13

	28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK
	28272 VTP	**VITOM® 3D Clamping Jaw,** for POINT SETTER, with dovetail connector, for use with VITOM® 3D and POINT SETTER holding system
	495 TIP 495 VIT	**Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm, for use with TIPCAM® **Fiber Optic Light Cable,** with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
	TH 001*	**Cover,** for VITOM® 3D, sterile, for single use, package of 10 STERILE
	TH 002	**VITOM® 3D Illuminator,** additional lighting for VITOM® 3D, with 1 adjustable lens, **autoclavable,** for use with VITOM® 3D and light cable
	TH 003	**Protective Cover,** high-grade protective cover, padded imitation leather, for protecting the VITOM® 3D during storage and transport, for use with VITOM® 3D and holding arm
	39502 ZH 39502 LH 39100 SH 39100 PS 39360 AS	**Wire Tray, stackable,** with hole plates **Lid** **Silicone Grid Insert LARGE DIAMOND GRID** **Fixation Pins,** package of 12 **Silicone Tie-Downs,** package of 12

* mtp

Please note: The instruments displayed are not included in the wire tray.

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IMAGE1 PILOT with holding system for fixation to the operating table

	TC 014	**IMAGE1 PILOT,** control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units, for use with IMAGE1 S™ and VITOM® 3D TH 200
	28172 HR	**Rotation Socket,** to clamp to the operating table, with one mounted Butterfly Nut 28172 HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand
	28272 HB	**Articulated Stand,** reinforced version, L-shaped, with one mechanical central clamp for all five joint functions, height 48 cm, operating range 52 cm, with quick release coupling KSLOCK (female)
	041150-20*	**Cover,** with elasticated tip, 42 x 164 cm, sterile, for single use, package of 20, for use with KARL STORZ holding systems and IMAGE1 PILOT

Monitors

 TM 350 TM 330	TM 350	**32" 4K/3D Monitor,** screen resolution 3840 x 2160, image format 16:9
	TM 330	**32" 3D Monitor,** screen resolution 1920 x 1080, image format 16:9
	9832 SFH	**Monitor Stand,** for professional use, height-adjustable, tiltable, rotation +/-30°, disinfectable, color white, with VESA 200 adaptor, for use with 32" monitors up to 15 kg
	TM 003	**3D Polarization Glasses,** fogless, passive, for use with 3D monitors
	9800 C	**3D Clip-on Glasses,** circularly polarized, for use with 3D monitors

5-16

* mtp

Holding Systems for VITOM® 3D see chapter 11

Accessories for Operating Microscopes

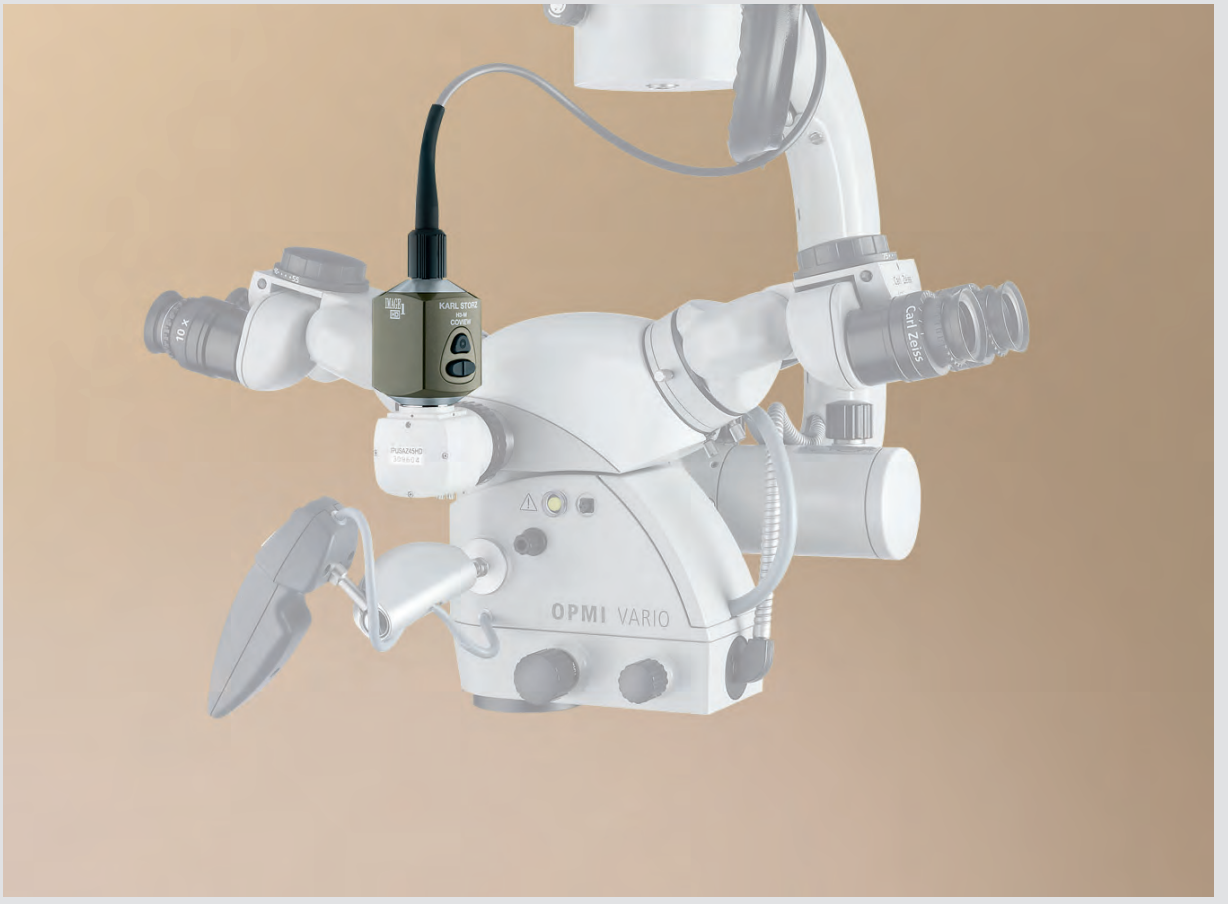
IMAGE1 S™

With the operating microscope, the surgeon always has a perfect view of the operating field. Assistants, OR nurses and students, however, often experience poor visualization of the microscope image. This is especially true if brilliant visualization is not available. KARL STORZ offers solutions from one source that are specially designed to equip operating microscopes from leading manufacturers with state-of-the-art technology. To achieve optimal results, all components in the video chain – from the camera to the monitor – must be of the highest quality.

The most straightforward and professional connection between the camera and the microscope is the so-called direct adaption.

Here the IMAGE1 S™ H3-M COVIEW® microscope camera and the corresponding QUINTUS® TV adaptor are directly connected to the microscope via the C-MOUNT connection.

The microscope camera head is part of the IMAGE1 S™ camera platform and is equipped with the S-Technologies CLARA, CHROMA and SPECTRA.



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Accessories for Operating Microscopes

Overview

27" FULL HD Monitor



TM 220

ZeroWire G2 Transmission Set (optional)



TZ 100

KARL STORZ AIDA® Documentation Systems



WD 300
WD 350

IMAGE1 S™ Camera System



TC 200EN
TC 300

IMAGE1 S™ H3-M COVIEW® Three-Chip FULL-HD-C-MOUNT Camera Head



TH 106

TV Adaptor



Operating Microscope



Surgical microscopy supported by Carl Zeiss, LEICA Microsystems and Möller-Wedel

5-16

IMAGE1 S™ NEW

Three-Chip FULL HD C-MOUNT Camera Head for Microscopy

CLARA CHROMA SPECTRA



With C-MOUNT thread for connection to microscopes

TH 106 **IMAGE1 S™ H3-M COVIEW® Three-Chip FULL HD C-MOUNT Camera Head,** 50/60 Hz, S-Technologies available, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with IMAGE1 S™ and IMAGE 1 HUB™ HD

Specifications:

Frame rate	50/60 Hz
Image sensor	3-chip
Resolution	1920 x 1080 pixels
Scanning method	progressive scan
Dimensions w x h x l	45 x 50 x 60 mm
Weight	240 g
Cable length	900 cm, detachable
Cable routing	straight
Camera head buttons	freely programmable
Grip mechanism	C-MOUNT connection
Reprocessing	wipe disinfection
S-Technologies	CLARA, CHROMA, SPECTRA
Degree of safety	in conjunction with Camera Control Unit IMAGE1 S™: CF-Defib

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Accessories for Operating Microscopes see pages 119-121

QUINTUS® – High-Performance TV Adaptor for Operating Microscopes

Unleash the full performance of your operating microscope with imaging solutions from KARL STORZ

The new QUINTUS® TV adaptor is the perfect interface between the operating microscope and the IMAGE1 S™ H3-M COVIEW® microscope camera head from KARL STORZ.

The innovative features of QUINTUS® are easy to use, making it one of the most flexible TV adaptors on the market.

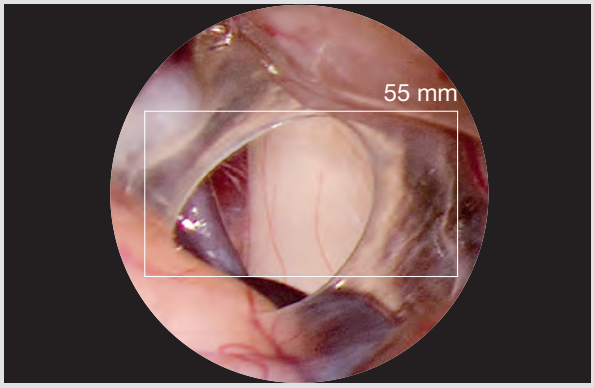


Product Features:

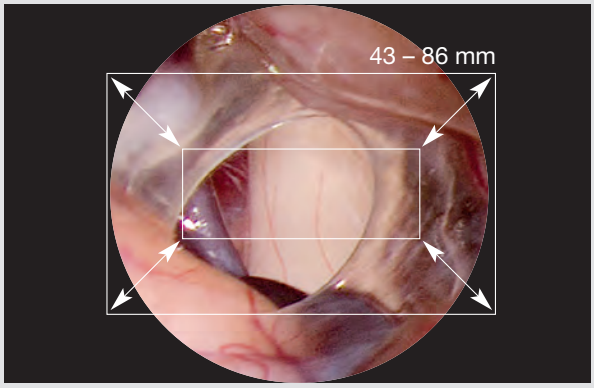
- A rotating C-MOUNT connection at the QUINTUS® TV adaptor allows immediate adaption of the camera orientation during mounting.
- The focus control makes it possible to easily achieve parfocality (perfectly sharp camera and microscope images).
- The iris control provides convenient and optimal adjustment of the depth of field.
- Pan (X) function enables adjustment of the horizontal position of the camera image.
- Tilt (Y) function enables adjustment of the vertical position of the camera image. The pan and tilt functions help the surgeon to adjust the position of the camera image according to individual needs.
- The QUINTUS® ZOOM model also features a variable focal length f = 43 – 86 mm. This allows the surgeon greater flexibility in choosing the exact zone required for documentation.

Focal length of the QUINTUS® TV adaptor:

The QUINTUS® TV adaptor is available in the fixed focal length f = 55 mm or as a zoom model with variable focal length 43 – 86 mm. This provides an optimal image in 16:9 in conjunction with the H3-M COVIEW® microscope camera head.



Focal lengths: *H3-M COVIEW® camera image detail using a QUINTUS® TV adaptor with a fixed focal length of 55 mm.*



Variable focal length: *Adjustable H3-M COVIEW® camera image detail using a QUINTUS® zoom adaptor with variable focal length of 43 – 86 mm.*

Accessories for Operating Microscopes

TV Adaptors

KARL STORZ — ENDOSKOPE

QUINTUS® TV Adaptor for operating microscopes from CARL ZEISS MEDITEC with fixed focal length



20 9230 55 **QUINTUS® Z 55 TV Adaptor,** for CARL ZEISS MEDITEC operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as S1 and S3 camera heads

QUINTUS® Zoom TV Adaptor for operating microscopes from CARL ZEISS MEDITEC with variable focal length



20 9230 00 Z **QUINTUS® Zoom TV Adaptor,** for CARL ZEISS MEDITEC operating microscopes, with variable focal length f = 43 – 86 mm, for use with all KARL STORZ cameras (SD and HD)

Further accessories for operating microscopes from CARL ZEISS MEDITEC



20 9250 00 **Iris,** for ZEISS Pentero®, iris as a necessary extension between the QUINTUS® TV adaptor and the operating microscope ZEISS Pentero®



301513 **Optical Beamsplitter 50/50,** for use with ZEISS operating microscope or colposcope

5-16

Note: Optical beamsplitters for other operating microscopes (i.e. LEICA or Möller-Wedel) are available directly from the manufacturers.

Accessories for Operating Microscopes

TV Adaptors

KARL STORZ — ENDOSKOPE

QUINTUS® TV Adaptor for operating microscopes from LEICA Microsystems with fixed focal length



20 9330 55 **QUINTUS® L 55 TV Adaptor,** for LEICA Microsystems operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as S1 and S3 camera heads

QUINTUS® TV Adaptor for operating microscopes from LEICA Microsystems with variable focal length



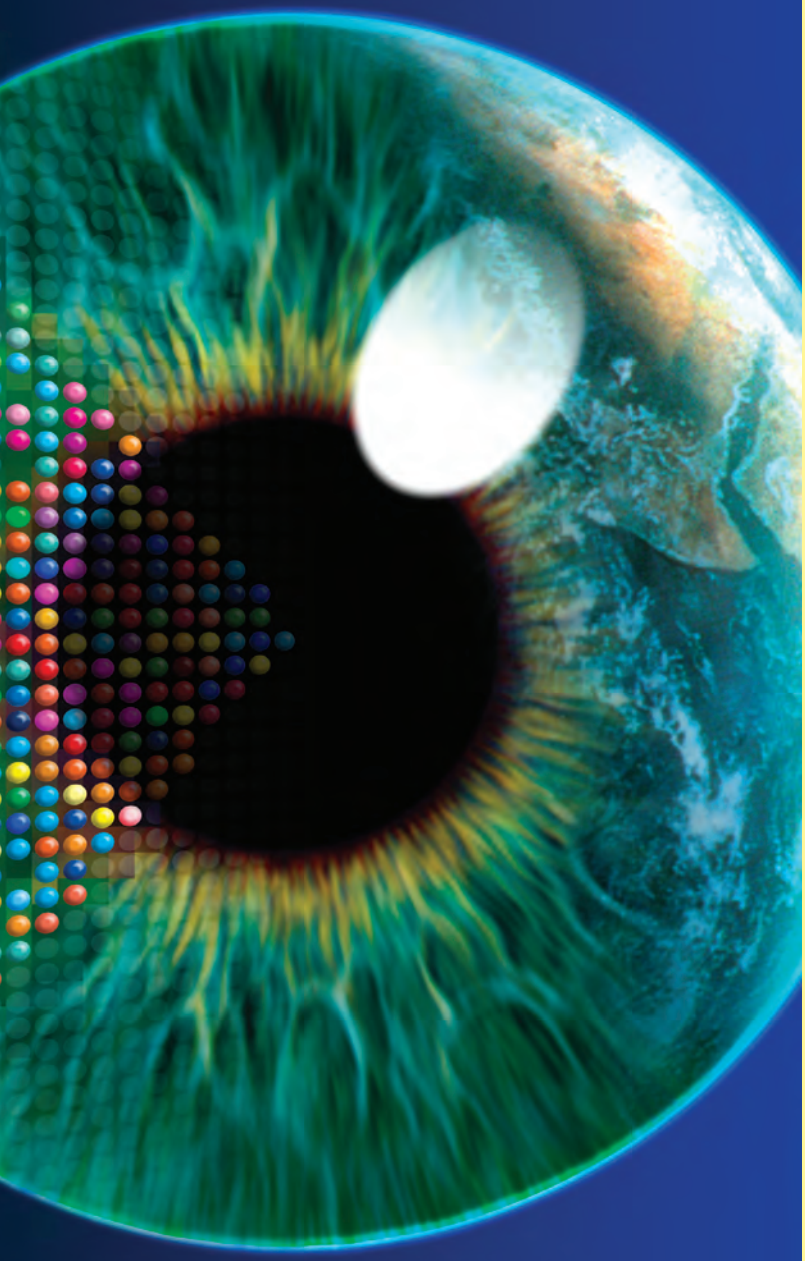
20 9330 00 Z **QUINTUS® Zoom TV Adaptor,** for LEICA Microsystems operating microscopes, with variable focal length f = 43 – 86 mm, for use with all KARL STORZ cameras (SD and HD)

QUINTUS® TV Adaptor for operating microscopes from Möller-Wedel/Haag-Streit with fixed focal length



20 9530 55 **QUINTUS® M 55 TV Adaptor,** for Möller-Wedel/ Haag-Streit operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as S1 and S3 camera heads

Note: Optical beamsplitters for other operating microscopes (i.e. LEICA or Möller-Wedel) are available directly from the manufacturers.



COMPATIBILITY OVERVIEW

CAMERA HEADS AND
COMPATIBLE CAMERA
CONTROL UNITS 124-125

Camera Heads, Camera Control Units

Overview

Camera Control Units / Camera Heads				
	TC 304 **IMAGE1 S™ 4U-LINK**	TC 302 **IMAGE1 S D3-LINK®**	TC 301 **IMAGE1 S™ X-LINK**	TC 300 **IMAGE1 S™ H3-LINK**
IMAGE1 S™ Camera Heads				
 TH 120 4K-UHD	CLARA CHROMA SPECTRA 4K	–	–	–
 TH 113 HX P-FI	–	–	CHROMA SPECTRA OPAL1™ PDD	–
 TH 112 HX-FI	–	–	CHROMA SPECTRA OPAL1™ PDD	–
 TH 111 HX-P	–	–	●	–
 TH 110 HX	–	–	●	–
 TH 106 H3-M COVIEW® S	–	–	–	CLARA CHROMA SPECTRA
 TH 104 H3-ZA S	–	–	–	CLARA CHROMA SPECTRA
 TH 103 H3-P S	–	–	–	CLARA CHROMA SPECTRA
 TH 102 H3-Z FI S	–	–	–	CLARA CHROMA SPECTRA OPAL1™ NIR/ICG ICG-capable with Cold Light Fountain D-LIGHT P SCB 20 1337 01-1
 TH 100 H3-Z S	–	–	–	CLARA CHROMA SPECTRA

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Camera Heads, Camera Control Units

Overview

Camera Heads \ Camera Control Units				
	TC 304 **IMAGE1 S™ 4U-LINK**	TC 302 **IMAGE1 S D3-LINK®**	TC 301 **IMAGE1 S™ X-LINK**	TC 300 **IMAGE1 S™ H3-LINK**
IMAGE1 S™ 3D				
 TIPCAM®1 S 3D LAP 0°/30° 26605 AA/26605 BA	–	CLARA CHROMA SPECTRA 3D	–	–
 TIPCAM®1 S 3D ORL 7240 AA3D/BA3D/FA3D TIPCAM®1 S 3D NEURO 28164 AA3D*/BA3D*/FA3D*	–	CLARA CHROMA SPECTRA 3D	–	–
 VITOM® 3D TH 200	–	CLARA CHROMA SPECTRA 3D	–	–

*** Currently not available in CE markets.**

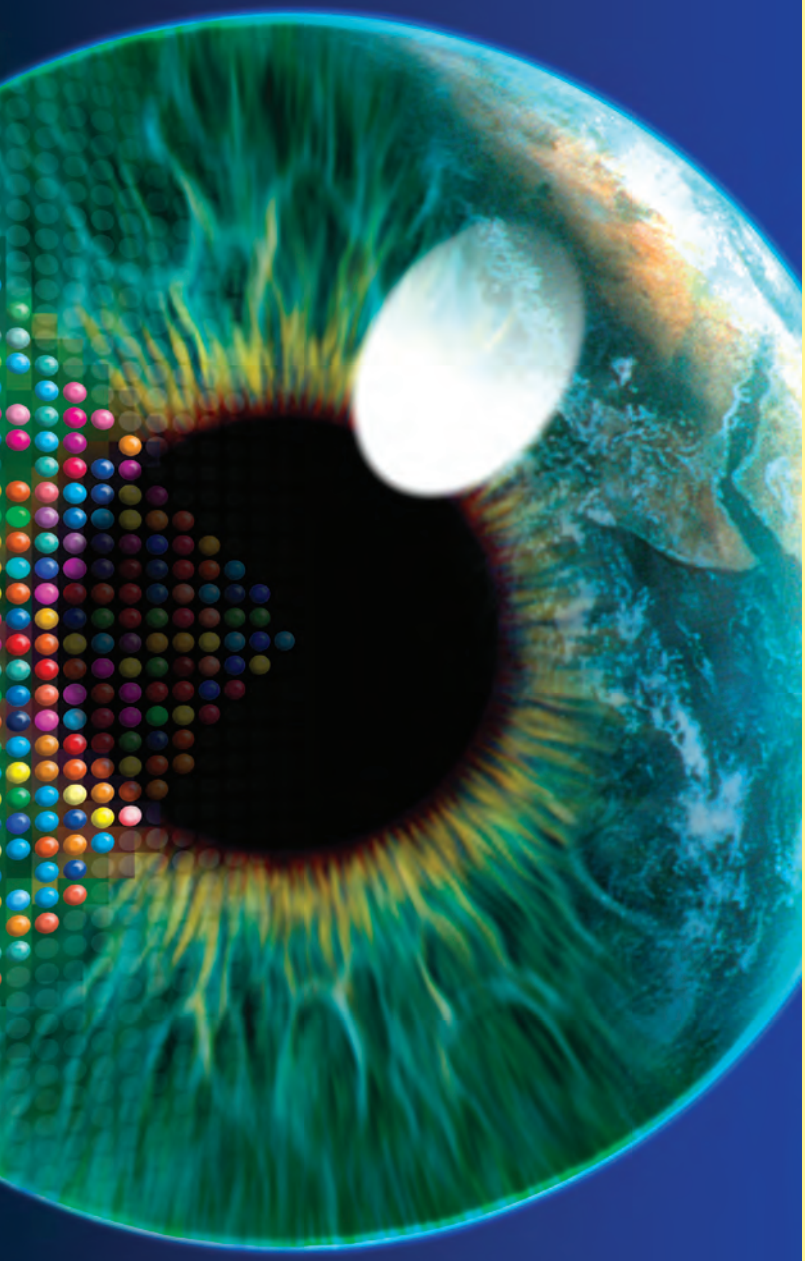
CLARA CHROMA SPECTRA S-Technologies

OPAL1™ NIR/ICG Near Infrared (NIR) / Indocyanine Green (ICG)

OPAL1™ PDD Photodynamic Diagnosis (PDD)

Camera Heads \ Camera Control Units				
	TP 100EN **TELE PACK X LED**	TP 200EN **TELE PACK X GI**	**20** 2903 20 **C-HUB® II**	8403 ZX **C-MAC® Monitor**
TELECAM One-Chip Camera Heads				
 TELECAM **20** 2120 30 (PAL) **20** 2121 30 (NTSC)	●	 **20** 0450 30	–	–
 TELECAM Beamsplitter **20** 2120 32 (PAL) **20** 2121 32 (NTSC)	●	 **20** 0450 30	–	–
C-CAM®				
 C-CAM® **20** 2901 32	–	–	●	●

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MONITORS

4K MONITORS
31", 32" AND 58" 129-130

FULL HD MONITOR 27"
HD MONITOR 19" 131-132

3D MONITORS
26" AND 32" 133-135

ACCESSORIES 136

ZEROWIRE
WIRELESS VIDEO
TRANSMISSION SYSTEM 137-138

16:9 Monitor

The FULL HD widescreen monitor features bright and brilliant imaging with excellent color rendition. Optimized for the IMAGE1 S™ camera platform, the monitor delivers flawless endoscopic FULL HD images with a resolution of 1920 x 1080 pixels in a 16:9 format.

The monitor also features a 3G-SDI input and output. This allows optimal image transmission across large distances.

4:3 Monitor

The 19-inch 4:3 HD monitor is optimal for round endoscopic images. Almost 47 cm in width, it is smaller than the other monitors in the portfolio and can therefore be placed much closer to the operating surgeon. This makes it a space-saving and cost-effective monitor solution without compromising on user benefits such as LED backlight technology, excellent hygiene properties and clear image rendition.

4K Monitor

The term 4K refers to the number of horizontal pixels. Nominally, 4K offers four times as many pixels as FULL HD (2,070,000 pixels with FULL HD; 8,290,000 pixels with 4K), i.e., the same image is “scanned” with twice as many pixels in both the horizontal and the vertical direction and displayed accordingly. The KARL STORZ 4K monitors feature a high level of detail and clear colors.



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4K Monitors NEW

31" , 32" and 58"

KARL STORZ — ENDOSKOPE

4K







	TM 440 NEW **58" 4K Monitor**	TM 350 NEW **32" 4K/3D Monitor**	TM 342 NEW **31" 4K Monitor**
including:	**Mains Cord** **Cable Cover** 4x **Mounting Screws M8**	**Mains Cord** **External 24 VDC Power Supply** 3x **3D Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**	**External 48 VDC Power Supply** **Mains Cord** **Cable Cover** 2x **Screws for Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**

Stand suitable for TM 350/342:



9832 SFH — **Monitor Stand,** for professional use, height-adjustable, tiltable, rotation +/-30°, disinfectable, color white, with VESA 200 adaptor, for use with 32" monitors up to 15 kg

9826 SF — **Monitor Stand,** basic monitor stand, tiltable, rotation +/-30°, disinfectable, color white, with VESA 100 adaptor, for use with all monitors with VESA 100 adaptors up to 12 kg

Stand suitable for TM 440:



WA 10007 — **OR1™ Monitor Cart, Set,** height-adjustable, for monitor 42 – 64", VESA pattern min. 100/100, max. 400/400, monitor weight max. 60 kg, monitor holder height adjustable on 1.8 m high column, four castors, floor area (in mm): 980 x 830, total height: 1.95 m
including:
OR1™ Mobile Stand
OR1™ Column
OR1™ Cross Bar
2x **OR1™ Monitor Mounts**

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4K Monitors

NEW

31" , 32" and 58"

KARL STORZ — ENDOSKOPE

Specifications:

	TM 440	TM 350	TM 342
Screen diagonal	**58"**	**32"**	**31.1"**
Resolution	3840 x 2160 pixels	3840 x 2160 pixels	3840 x 2160 pixels
Aspect ratio	16:9		
Contrast ratio	5000:1	1000:1	1500:1
Brightness	500 cd/m^2 (type)	700 cd/m^2 (type)	350 cd/m^2 (type)
Max. viewing angle	178° vertical	-	178° vertical/horizontal
Video inputs	1x DisplayPort, 1x 12G-SDI, 1x HDMI 2.0, 1x DVI-D	1x DisplayPort, 1x 12G-SDI, 1x HDMI 2.0, 1x HDMI 1.4b, 2x DVI-D	1x DisplayPort, 1x 12G-SDI, 2x DVI-D, 1x 3G-SDI
Video outputs	1x 12G-SDI	2x DVI-D 1x 12G-SDI	1x DVI-D, 1x 12G-SDI, 1x 3G-SDI
RS-232C connector	1x	for external control via RJ-11 adaptor	1x
USB output	5V/1A	–	5V/1A
Mount	VESA 400 x 400, VESA 400 x 200	VESA 100	100/200 mm VESA
Power supply	internal	external, 24 V	external, DC 48V
Unit properties	Picture in/out Picture, zoom function	n/a	Picture in/out Picture, zoom function
Power consumption	280 W	approx. 130 W	139.2 W
Power supply	100 – 240 VAC		
Power frequency	50/60 Hz		
Dimensions w x h x d	1329 x 781 x 89 mm	780 x 511 x 86 mm	760 x 444 x 87 mm
Weight	45.5 kg	approx. 12.3 kg	11.2 kg
Cleaning	wipe disinfection		
Degree of ingress protection	IP32	IP46 front IP20 rear	IP45 front IP32 rear
Monitor stand	Monitor Cart WA 10007	9832 SFH	9832 SFH, 9826 SF

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	TM 220 NEW **27" FULL HD Monitor**	9619 NB **19" HD Monitor**
including:	**External 24 VDC Power Supply** **Mains Cord** **Cable Cover** 4x **Mounting Screws M4**	**External 24 VDC Power Supply** **Mains Cord**

Stand suitable for TM 220 and 9619 NB:



9826 SF **Monitor Stand,** basic monitor stand, tiltable, rotation +/-30°, disinfectable, color white, with VESA 100 adaptor, for use with all monitors with VESA 100 adaptors up to 12 kg

2D Monitors

27" FULL HD Monitor, 19" HD Monitor

Specifications:

	TM 220	9619 NB
Screen diagonal	**27"**	**19"**
Resolution	1920 x 1080 pixels	1280 x 1024 pixels
Aspect ratio	16:9	4:3
Contrast ratio	1000:1	
Brightness	900 cd/m² (type)	260 cd/m² (type)
Max. viewing angle	178° vertical / horizontal	178° vertical
Video inputs	2x DVI-D, 1x 3G-SDI, 1x RGBS (VGA), 1x S-Video, 1x Composite	1x DVI-D, 1x 3G-SDI, 1x RGBS (VGA), 1x S-Video, 1x Composite BNC
Video outputs	1x DVI-D, 1 x 3G-SDI, 1x Composite, 1x S-Video	1x DVI-D, 1x 3G-SDI
RS-232C connector	1x	
5V jack plug	–	1x
DC output	5V/1A	–
Mount	100 mm VESA	
Power supply	external	
Unit properties	Picture-in-Picture	
Power consumption	72 W	120 W
Power supply	100 – 240 VAC	
Power frequency	50/60 Hz	
Dimensions (w x h x d)	660 x 400 x 87 mm	469.5 x 416 x 75.5 mm
Weight	8.5 kg	6.7 kg
Cleaning	wipe disinfection	
Degree of ingress protection	IP32	n/a
Monitor stand	9826 SF	9626 SF

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3D Monitors

Perfect image quality for brilliant endoscopic imaging

With their excellent image quality, the medical-grade monitors meet the highest quality standards.

The innovative LED backlighting technology reduces power consumption, increases the monitor lifespan and ensures perfect image illumination. Progressive scan technology provides an optimal display of rapid movements. Extensive monitor settings include many functions such as picture-in-picture, horizontal and vertical mirroring and many more. Thanks to the standardized VESA 100 or 200 adaptors, the monitors are suitable for most ceiling arms and tower mounts. The monitors can be fully integrated into the KARL STORZ OR1™ system.

3D Monitors

For brilliant images with natural colors and a realistic depth effect, KARL STORZ offers 3D FULL HD monitors with diagonal sizes of 26" and 32". The monitors deliver excellent, clear images in both the 2D and 3D modes. The lightweight, passive 3D glasses enable fatigue-free viewing and comfortable wear, even during long surgeries. For people wearing prescription glasses, 3D clip-ons can be easily attached to the prescription frame. The monitors feature rotation options in the menu settings so that the image horizon can easily be rotated by 180 degrees.

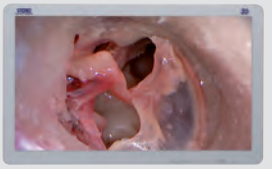


10-18

3D Monitors

26" and 32"







	TM 350 NEW **32" 4K/3D Monitor**	TM 330 NEW **32" 3D Monitor**	TM 263 NEW **26" 3D Monitor**
including:	**Mains Cord** **External 24 VDC Power Supply** 3x **Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**	**Mains Cord** **External 24 VDC Power Supply** 3x **Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4** 4x **Mounting Screws M6**	**Mains Cord** **External 24 VDC Power Supply** 3x **Polarization Glasses,** passive **Cable Cover** 4x **Mounting Screws M4**

Stand suitable for TM 263/330



9826 SF **Monitor Stand,** basic monitor stand, tiltable, rotation +/-30°, disinfectable, color white, with VESA 100 adaptor, for use with all monitors with VESA 100 adaptors up to 12 kg

Stand suitable for TM 330/350:



9832 SFH **Monitor Stand,** for professional use, height-adjustable, tiltable, rotation +/-30°, disinfectable, color white, with VESA 200 adaptor, for use with 32" monitors up to 15 kg

10-18

3D Monitors

26" and 32"

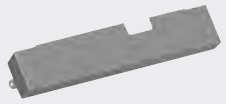
KARL STORZ — ENDOSKOPE

Specifications:

	TM 350	TM 330	TM 263
Screen diagonal	**32"**	**31.5"**	**26"**
Resolution	3840 x 2160 pixels	1920 x 1080 pixels	1920 x 1080 pixels
Aspect ratio	16:9		
Contrast ratio	1000:1	1400:1	1400:1
Brightness	700 cd/m² (type)	650 cd/m² (type)	580 cd/m² (type)
Video inputs	1x DisplayPort, 1x 12G-SDI, 1x HDMI 2.0, 1x HDMI 1.4b, 2x DVI-D	2x DVI-D, 2x 3G-SDI, 1x Analog RGB (via VGA), 1x S-Video, 1x Composite, 1x Component	2x DVI-D, 2x 3G-SDI, 1x Analog RGB (via VGA), 1x S-Video, 1x Composite, 1x Component
Video outputs	2x DVI-D 1x 12G-SDI	1x DVI-D, 2x 3G-SDI, 1x S-Video, 1x Composite, 1x Component	1x DVI-D, 2x 3G-SDI, 1x S-Video, 1x Composite, 1x Component
RS-232C connector	for external control via RJ-11 adaptor	for external control (D-Sub 9-pin), RS-232C-compatible	for external control (D-Sub 9-pin), RS-232C-compatible
GPI output	–	D-Sub 9-pin	D-Sub 9-pin
Mount	VESA 100		
Power supply	external, 24 V		
Unit properties	n/a	Picture-in-Picture	Picture-in-Picture
Power consumption	approx. 130 W	88.8 W	86.4 W
Power supply	100 – 240 VAC		
Power frequency	50/60 Hz		
Dimensions w x h x d	780 x 511 x 86 mm	760 x 463 x 96 mm	643 × 396 × 80 mm
Weight	approx. 12.3 kg	10.2 kg	8.5 kg
Cleaning	wipe disinfection		
Degree of ingress protection	IP46 front IP20 rear	IP45 front IP32 rear	IP45 front IP32 rear
Monitor stand	9832 SFH	9826 SF	9826 SF

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Accessories for Monitors

	TM 001	**Monitor Cover,** high-grade monitor cover, padded imitation leather, suitable for 26" monitors
	TM 002	**Monitor Cover,** high-grade monitor cover, padded imitation leather, suitable for monitors up to 27" screen diagonal
	TM 010	**Monitor Cover,** high-grade monitor cover, padded imitation leather, suitable for 31" and 32" monitors
	9826 NB-COV	**Cable Cover,** for monitor, mounted at the rear of the monitor
	9826 PS	**Monitor Power Supply,** external 24 V power supply and cable, for Monitors 9826 NB/NB-3D, TM 263, TM 330 and TM 323 including: **Power Supply Adaptor** **Mains Cord**
	**20** 0403 74	**VGA Monitor Cable,** length 300 cm
	TC 003	**DisplayPort Cable,** length 300 cm
	TC 008	**12G-SDI Cable,** length 10 m
	TC 017	**Same,** length 300 cm
	TC 005	**3G-SDI Cable,** length 10 m
	TC 007	**Same,** length 300 cm
	**20** 0400 89	**DVI-D Connecting Cable,** length 300 cm
	547 S	**S-Video (Y/C) Connecting Cable,** length 180 cm

Accessories for 3D Monitors

	TM 003	**3D Polarization Glasses,** fogless, passive, for use with 3D monitors
	9800 C	**3D Clip-on Glasses,** circularly polarized, for use with 3D monitors

10-18

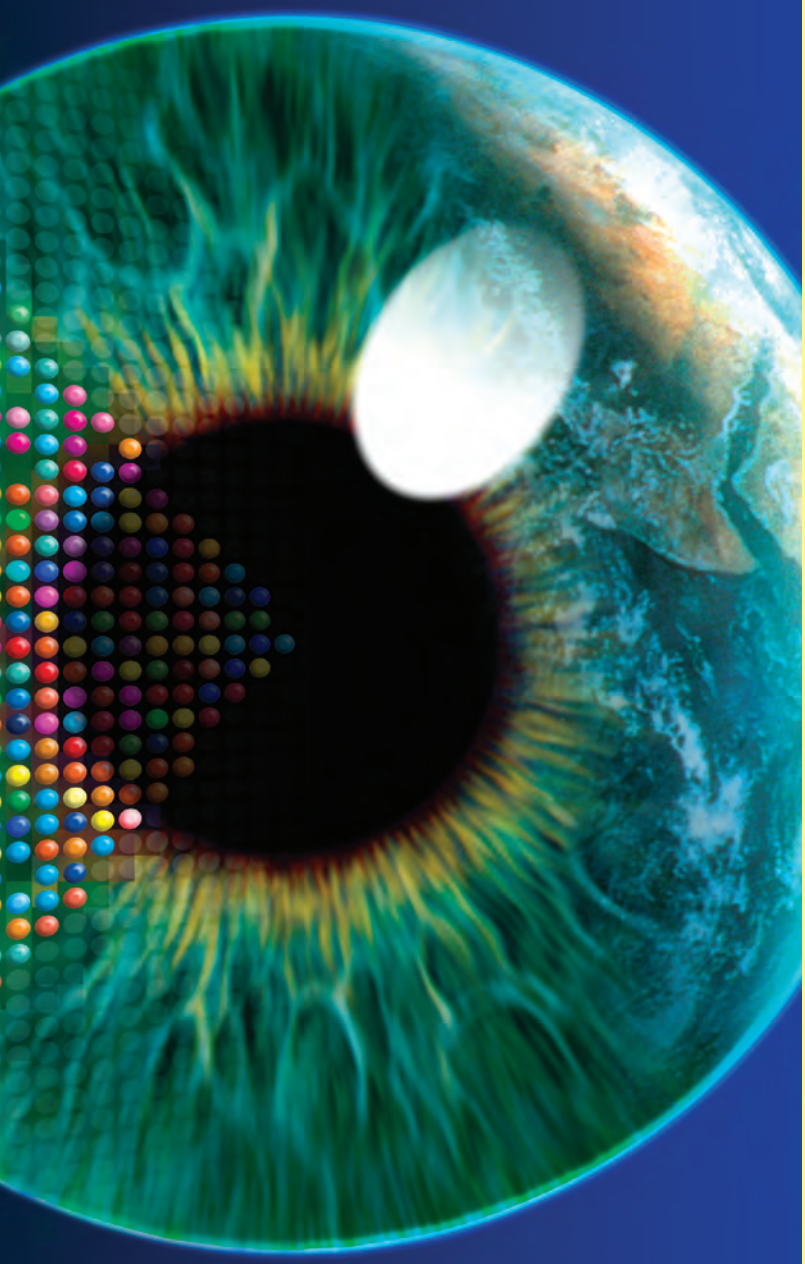
	TZ 100	**ZeroWire G2 Transmission Set,** for wireless 2D and 3D video transmission, supports resolutions up to 1080p, 50/60 Hz, with DVI and 3G-SDI inputs including: **Transmitter** **Receiver** 2x **VESA Holders 24"/26"** 2x **DVI-D Cables** **SDI Cable** **User Manual** **Installation Manual** **Note:** Two TZ 001, TZ 002, TZ 003 or 9826 NB-ZW are required per ZeroWire G2 Video Transmission Set depending on the monitor.
	TZ 101	**ZeroWire G2 Receiver,** for wireless 2D and 3D video transmission, supports resolutions up to 1080p, 50/60 Hz, with DVI input
	TZ 102	**ZeroWire G2 Transmitter,** for wireless 2D and 3D video transmission, supports resolutions up to 1080p, 50/60 Hz, with DVI and 3G-SDI inputs
	9826 NB-ZW	**ZeroWire Y-Cable,** Y-cable for looping into the monitor power supply to power the ZeroWire transmitter or receiver. The adaptor cable is equipped with a 4-pin plug, a bifurcation to a 4-pin socket and a DC plug. **Note:** For use with ZeroWire G2 Transmission Set TZ 100 in conjunction with FULL HD Monitor 9826 NB, 26" 3D Monitor 9826 NB-3D, 26" 3D Monitor TM 263, 32" 3D Monitor TM 323 and 32" 3D Monitor TM 330
	TZ 001	**ZeroWire G2 Power Supply**, external 3-pin power supply, 24 V, 18 W, for direct connection to the video transmission system, for use with all monitors

10-18

Components/Spare Parts see chapter 13

	TZ 002	**ZeroWire G2 Y-Cable 19" – 26",** 3-pin Y-connector, for looping into the monitor power supply, for use with Monitors 9619 NB, 9627 NB, 9626 NB, 9526 NB, 9515 NB
	TZ 003	**ZeroWire G2 Y-Cable 26" – 32",** 3-pin Y-connector, for looping into the monitor power supply
	TZ 018	**ZeroWire G2 Mounting Bracket,** for mounting the transmitter/receiver onto 32" monitors, for use with ZeroWire G2 TZ 100 and 32" monitors
	TZ 019	**ZeroWire G2 Mounting Bracket,** for mounting the transmitter/receiver onto 24"/26" monitors, for use with ZeroWire G2 TZ 100 and 24"/26" monitors

Components/Spare Parts see chapter 13



COLD LIGHT FOUNTAINS AND LIGHT CABLES

COLD LIGHT FOUNTAINS AND LIGHT CABLES 140

LED COLD LIGHT FOUNTAINS 141-142

XENON COLD LIGHT FOUNTAINS 143-144

COLD LIGHT FOUNTAINS WITH INTEGRATED PUMP 145

COLD LIGHT FOUNTAINS FOR FLUORESCENCE IMAGING 146-150

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FIBER OPTIC AND FLUID LIGHT CABLES 153-155

ADAPTOR FOR LIGHT SOURCES AND LIGHT CABLES 156

Cold Light Fountains and Light Cables

Top quality for over 60 years

The invention of the cold light source by Dr. Karl Storz in 1960 marked a breakthrough in endoscopy. Since then, the name KARL STORZ has been synonymous with high-quality, cutting-edge technology in minimally invasive surgery. The cold light fountains from KARL STORZ use only select and particularly powerful XENON lamps as well as high-quality LED light-emitting diodes. With sustainable resource conservation in mind, KARL STORZ values innovative technologies with the highest possible light output. Consequently, all products meet the demand to deliver the highest light intensity with low power consumption.

LED Cold Light Fountains

LED cold light sources feature a constant light density combined with a very long service life. The average opera-tional life of LED lamps is 30,000 hours. LED cold light fountains convert electrical energy directly into visible light which results in a high light output. High-performance POWER LEDs only emit light in the visible range. This reduces heat development and facilitates lamp cooling. Consequently, the LED cold light fountains are encased in compact housing and are extremely quiet. With color temperatures ranging between 6000 and 6400 Kelvin, LEDs provide natural daylight coloration. All KARL STORZ light cables fit all LED cold light sources.

XENON Cold Light Sources

The XENON cold light sources feature a high light density while the service life is 10 times longer than comparable halogen lamps. With a color temperature of 6000 Kelvin, XENON light sources provide natural coloration similar to daylight.



10-18

Components/Spare Parts see chapter 13

LED Cold Light Fountains NEW

POWER LED 300

KARL STORZ — ENDOSKOPE

LED



with touch screen

	TL 300 **Cold Light Fountain POWER LED 300**
	with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100 – 240 VAC, 50/60 Hz
including:	**Mains Cord**

Specifications:

Illumination technology	LED
Color temperature	approx. 6000 K
Average lamp service life	30,000 h
Light intensity adjustment	automatic via SCB manual via SCB manual via touch screen
Unit communication	KARL STORZ Communication Bus (2x SCB)
Power consumption	175 VA
Power supply	100 – 240 VAC
Power frequency	50/60 Hz
Dimensions w x h x d	305 x 155 x 313 mm
Weight	8.6 kg
Cleaning	wipe disinfection
Protection class	1
Degree of safety	CF-Defib

10-18

LED Cold Light Fountains

POWER LED 175 SCB, LED NOVA 150

KARL STORZ — ENDOSKOPE





	20 1614 01-1 **Cold Light Fountain POWER LED 175 SCB**	**20** 1612 01 **Cold Light Fountain LED NOVA 150**
	with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet	high-performance LED module, with one KARL STORZ light outlet
including:	**Mains Cord** **SCB Connecting Cable**	**Mains Cord**

Specifications:

Illumination technology	LED	
Color temperature	approx. 6400 K	
Average lamp service life	30,000 h	
Light intensity adjustment	automatic via SCB manual via SCB manual via membrane keyboard	manual
Unit communication	KARL STORZ Communication Bus (2x SCB)	–
Power consumption	110 VA	60 VA
Power supply	110 – 240 VAC	100 – 240 VAC
Power frequency	50/60 Hz	
Dimensions w x h x d	305 x 110 x 233 mm	305 x 84 x 238 mm
Weight	4 kg	2.3 kg
Cleaning	wipe disinfection	
Protection class	1	
Degree of safety	CF	

10-18

XENON Cold Light Fountains

XENON 300 SCB

KARL STORZ — ENDOSKOPE



	20 1331 01-1 **Cold Light Fountain XENON 300 SCB**
	with integrated KARL STORZ-SCB, including an integrated anti-fog pump, a 300 Watt XENON bulb and one KARL STORZ light outlet
including:	**Mains Cord** **SCB Connecting Cable**

Specifications:

Illumination technology	XENON, 300 Watt
Color temperature	approx. 6000 K
Average lamp service life	500 h
Light intensity adjustment	automatic via SCB manual via SCB manual via membrane keyboard
Unit communication	KARL STORZ Communication Bus (SCB)
Power consumption	700 VA
Power supply	100 – 125/220 – 240 VAC
Power frequency	50/60 Hz
Dimensions w x h x d	305 x 165 x 335 mm
Weight	7.96 kg
Cleaning	wipe disinfection
Protection class	1
Degree of safety	CF

10-18

Available in the following countries only: USA, China, Hong Kong, India, Russia

Spare Lamps and Spare Lamp Modules for Cold Light Fountains see chapter 13, COMPONENTS AND SPARE PARTS

XENON Cold Light Fountains

XENON NOVA® 300, XENON NOVA® 175





	20 1340 01 **Cold Light Fountain** **XENON NOVA® 300**	**20** 1315 01 **Cold Light Fountain** **XENON NOVA® 175**
	with one 300 Watt XENON lamp and one KARL STORZ light outlet	with one 175 Watt XENON lamp and one KARL STORZ light outlet
including:	**Mains Cord**	**Mains Cord**

Specifications:

Illumination technology	XENON, 300 Watt	XENON, 175 Watt
Color temperature	approx. 6000 K	
Average lamp service life	500 h	
Light intensity adjustment	manual	
Power consumption	700 VA	400 VA
Power supply	100 – 125/220 – 240 VAC	
Power frequency	50/60 Hz	
Dimensions w x h x d	305 x 101 x 240 mm	
Weight	4 kg	
Cleaning	wipe disinfection	
Protection class	1	
Degree of safety	CF	

Available in the following countries only: USA, China, Hong Kong, India, Russia

Spare Lamps and Spare Lamp Modules for Cold Light Fountains see chapter 13, COMPONENTS AND SPARE PARTS

10-18

Cold Light Fountains with Integrated Pump

CO_2MBI® LED SCB

KARL STORZ — ENDOSKOPE



with touch screen

air and/or CO_2

	TL100S1 **Cold Light Fountain CO_2MBI® LED SCB**
	with high-performance LED, integrated KARL STORZ-SCB and integrated insufflation pump for air and CO_2
including:	**Irrigation Bottle Holder** **Holding Ring,** for water bottles **Water Bottle** **Irrigation Adaptor,** for water bottles **SCB Connecting Cable** **Universal Wrench**
for use with:	● **KARL STORZ video endoscopes**

Specifications:

Illumination technology	LED
Color temperature	approx. 6400 K
Average lamp service life	30,000 h
Light intensity adjustment	automatic via SCB manual via SCB manual via membrane keyboard
Unit communication	KARL STORZ Communication Bus (2 x SCB)
Power consumption	120 VA
Power supply	100 – 240 VAC
Power frequency	50/60 Hz
Dimensions w x h x d	305 x 110 x 313 mm
Weight	8.5 kg
Cleaning	wipe disinfection
Protection class	1
Degree of safety	CF
Pump	integrated pump with two power levels
Insufflation	CO_2 and/or air
CO_2 gas supply	central or via bottle

Spare Lamps and Spare Lamp Modules for Cold Light Fountains see chapter 13, COMPONENTS AND SPARE PARTS

10-18

Cold Light Fountains

for fluorescence imaging with OPAL1® technologies

KARL STORZ has been developing methods and equipment for fluorescence applications since 1995. Fluorescence imaging helps to identify anatomical structures in the human body that are not visible under white light.

NIR/ICG

The marker substance indocyanine green (ICG) was initially developed for photography before it was used for medical purposes. The fluorescent dye is administered intravenously to the patient. The indicator substance is rapidly excreted via the liver without being metabolized. ICG is administered intravenously for perfusion evaluation, e.g., assessment of anastomoses and bile duct visualization or directly injected into the tissue for visualization of the lymphatic system.*

AF

Autofluorescence (AF) is used for the early detection of tumors in the bronchi. It is only applied with the optical fluorescence technique without a marker substance. Due to the special properties of tissue, malignant lung tissue glows green when illuminated with blue light. Altered tissue, on the other hand, does not fluoresce. Differentiation between healthy and altered bronchial tissue is therefore easier to determine than when using white light alone.

PDD

Photodynamic Diagnosis (PDD) with a marker substance proves useful for the early detection of cancer in the bladder. The Hexvix® dye is administered to the patient via a bladder catheter. The tumor tissue glows pink under blue light. This makes it possible to visualize even small and hard-to-detect bladder tissue and supports the complete removal of tumors.



10-18

* Please verify that the fluorescent dye indocyanine green is approved for the respective indication in your country.

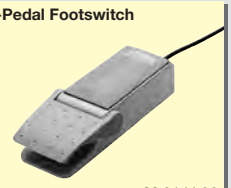
Indocyanine Green (ICG)

Cold Light Fountain D-LIGHT P SCB



20 1337 01-1

One-Pedal Footswitch



20 0141 30

SCB Connecting Cable



20 0901 70

IMAGE1 S™ Camera Systems



TC 200EN
TC 300

IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head



TH 102

HOPKINS® Telescopes for Indocyanine Green (ICG)



26003 ACA, 26003 BCA,
8710 AGA, 8711 AGA

Fiber Optic Light Cables



495 NAC, 495 NCSC,
495 NCS, 495 TIP, 495 VIT

10-18

NIR/ICG Cold Light Fountains

D-LIGHT P System SCB with OPAL1® Technology



Perfusion assessment under standard white light



Perfusion assessment in the NIR/ICG mode



	20 1337 01-1 **Cold Light Fountain D-LIGHT P SCB**
	with integrated KARL STORZ-SCB, high-performance light unit for perfusion assessment, autofluorescence and standard endoscopic diagnosis, including a 300 Watt XENON bulb and KARL STORZ light cable outlet
including:	**Mains Cord** **SCB Connecting Cable** **One-Pedal Footswitch,** digital, one-stage **Democard Fluorescence Imaging**

Specifications:

Illumination technology	XENON, 300 Watt
Color temperature	approx. 6000 K
Average lamp service life	400 h
Light intensity adjustment	manual via membrane keyboard
Molecular imaging	**NIR/ICG**
Unit communication	KARL STORZ Communication Bus (SCB)
Power consumption	600 VA
Power supply	100 – 125/220 – 240 VAC
Power frequency	50/60 Hz
Dimensions w x h x d	305 x 165 x 336 mm
Weight	9.7 kg
Cleaning	wipe disinfection
Protection class	1
Degree of safety	CF

10-18

Suitable Camera Heads for NIR/ICG see chapter 7, COMPATIBILITY OVERVIEW

Spare Lamps and Spare Lamp Modules for Cold Light Fountains see chapter 13, COMPONENTS AND SPARE PARTS

Photodynamic Diagnosis (PDD)

Fluid Light Cables



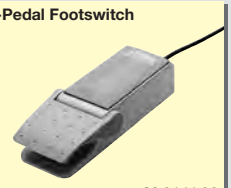
495 FS/FO/FP/FR

Cold Light Fountain D-LIGHT C/AF SCB



20 1336 01-133

One-Pedal Footswitch



20 0141 30

SCB Connecting Cable



20 0901 70

IMAGE1 S™ Camera Systems



TC 200EN
TC 301

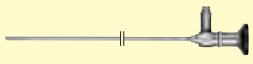
Urology (PDD)

One-Chip FULL HD Camera Head



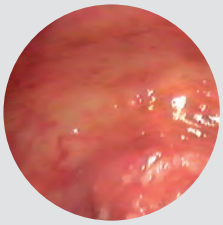
TH 113

HOPKINS® Telescopes for Photodynamic Diagnosis (PDD)

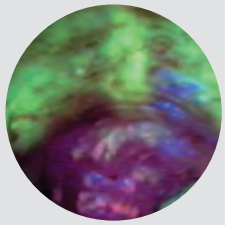


PDD-AF Cold Light Fountains

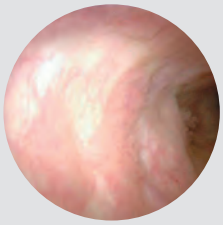
D-LIGHT C/AF System SCB with OPAL1® Technology



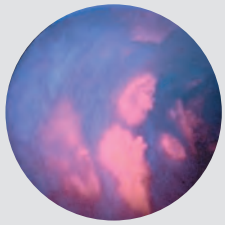
Standard image



AF mode



Standard image



PDD mode



	20 1336 01-133 **Cold Light Fountain D-LIGHT C/AF SCB**
	with integrated KARL STORZ-SCB, high-performance light unit for photodynamic diagnosis (PDD) ALA URO/ALA NEURO/Hypericine/Autofluorescence and for standard endoscopic diagnosis, with 300 Watt XENON bulb
including:	**Mains Cord** **SCB Connecting Cable** **One-Pedal Footswitch,** digital

Specifications:

Illumination technology	XENON, 300 Watt
Color temperature	approx. 6000 K
Average lamp service life	350 h
Light intensity adjustment	automatic via SCB manual via SCB manual via membrane keyboard
Molecular imaging	**PDD, AF**
Unit communication	KARL STORZ Communication Bus (SCB)
Power consumption	600 VA
Power supply	100 – 125/220 – 240 VAC
Power frequency	50/60 Hz
Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Cleaning	wipe disinfection
Protection class	1
Degree of safety	CF

Suitable Camera Heads and Video Endoscopes for PDD see chapter 7, COMPATIBILITY OVERVIEW

Spare Lamps and Spare Lamp Modules for Cold Light Fountains see chapter 13, COMPONENTS AND SPARE PARTS

10-18

Adaptor Series

for LED and XENON Light Sources

KARL STORZ — ENDOSKOPE

		POWER LED 300	XENON 300 SCB	XENON NOVA® 300	XENON NOVA® 175	D-LIGHT C/AF SCB	CO_2MBI® LED
20 0300 30	**Adaptor,** with insufflation connector, for connecting KARL STORZ fiberscopes and video endoscopes with KARL STORZ standard light connector to XENON 100, GASTRO PACK and Olympus cold light fountains	–	–	–	–	–	●
TL 005	**Triple Adaptor,** for use with POWER LED 300 cold light fountain in combination with KARL STORZ, Olympus, Stryker and Wolf light cables	●	–	–	–	–	–
487 A	**Adaptor,** for KARL STORZ light sources in combination with ACMI light cables	–	●	●	●	–	–
487 M	**Adaptor,** for KARL STORZ light sources in combination with Machida light cables	–	●	●	●	–	–
487 O	**Adaptor,** for KARL STORZ light sources in combination with Olympus light cables	–	●	●	●	–	–
487 P	**Adaptor,** for KARL STORZ light sources in combination with Pilling light cables	–	●	●	●	–	–
487 U	**Adaptor,** for KARL STORZ light sources in combination with Wolf, Dyonics, ACMI, Pilling, V. Müller, Stryker light cables	–	●	●	●	–	–
487 UO	**Adaptor,** for KARL STORZ light sources in combination with Wolf, Dyonics, ACMI, Olympus, V. Müller, Stryker light cables	–	●	●	●	–	–
487 VE	**Adaptor,** for connecting KARL STORZ video endoscopes to KARL STORZ halogen light sources and KARL STORZ fluorescence light sources	–	–	–	–	●	–
487 W	**Adaptor,** for KARL STORZ light sources in combination with Wolf light cables	–	●	●	●	–	–
487 WI	**Adaptor,** for KARL STORZ light sources in combination with Winter-IBE light cables	–	●	●	●	–	–
487 Z	**Adaptor,** for KARL STORZ light sources in combination with ZEISS light cables	–	●	●	●	–	–

10-18

Optional Accessories for Cold Light Fountain CO_2MBI® LED

	TL 001	**Irrigation Bottle Holder,** for use with Cold Light Fountain CO_2MBI® LED SCB TL 100 S1
	TL 002	**Holding Ring,** for Water Bottle 13992 BS, for use with Irrigation Bottle Holder TL 001
	TL 003	**Holding Ring,** for use with Ampuwa Plastipur irrigation bottles, in combination with Irrigation Bottle Holder TL 001
	TL 004	**CO_2 Bottle Holder,** for CO_2 bottles, for use with Cold Light Fountain CO_2MBI® LED TL 100
	495 KS	**Adaptor,** for standard KARL STORZ fiber optic light cables (not 495 NCS/TIP/NAC/NCSC), for connection to cold light fountains with video endoscope adaptor
	**20** 0300 30	**Adaptor,** with insufflation connector

Accessories for Cold Light Fountain POWER LED 300

	TL 005	**Triple Adaptor,** for use with POWER LED 300 cold light fountain in combination with KARL STORZ, Olympus, Stryker and Wolf light cables
	**20** 0901 70	**SCB Connecting Cable,** length 100 cm

10-18

Fiber Optic and Fluid Light Cables

for Cold Light Fountains

Endoscopic imaging is largely dependent on the quality of the fiber optic light cable.

It pays to inspect and replace these cables regularly as even a state-of-the-art camera system delivers dark images if the light cable is not functioning properly.

Fiber Optic Light Cables

With the fiber optic light cable with safety lock, KARL STORZ presents a new product featuring high light yield and long service life as well as quality workmanship with attention to detail.

Special Features:

The hot-fused optical fibers impress with:

- Excellent light transmission
- Longevity
- Can be used for ICG fluorescence applications
- Autoclavable
- Revolving safety lock for 495 NAC and 495 NCSC
- Available in diameters 4.8 mm and 3.5 mm

Fluid Light Cables

In fluid light cables, light is not transmitted via glass fibers but through a special fluid inside the light cable.

Fluid light cables are stiffer than fiber optic light cables and should not be bent too much.

The light transmitted in this type of cable is, however, more intense than when using fiber optic light cables of comparable diameters.

Fluid light cables are therefore preferred for photodynamic diagnosis (PDD) in conjunction with light sources from the D-LIGHT series.

Fluid light cables can be disinfected in solutions and can also be gas-sterilized.

Steam sterilization causes damage to the fluid light cable.



Adaptor for connecting KARL STORZ fiber optic light cables with endoscopes and light sources from other manufacturers, see page 151

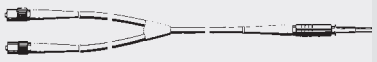
10-18

Fiber Optic and Fluid Light Cables

for Cold Light Fountains



Order No.	Diameter (mm)	Length (cm)	NIR/ICG applications	Straight connector	Extremely heat-resistant	Enhanced Light transmission	With safety lock
495 NT	2.5	180	–	●	–	–	–
495 NTA	2.5	230	–	●	–	–	–
495 NL	3.5	180	–	●	–	–	–
495 NA	3.5	230	–	●	–	–	–
495 NAC	3.5	230	●	●	●	●	●
495 ND	3.5	300	–	●	–	–	–
495 NB	4.8	180	–	●	–	–	–
495 NCSC	4.8	250	●	●	●	●	●
495 NCS	4.8	250	●	●	●	●	–
495 TIP	4.8	300	●	●	●	●	–
495 NE	4.8	300	–	●	–	–	–
495 VIT	4.8	550	●	●	●	●	–



495 UD **Fiber Optic Light Cable,** with straight connector, 2x diameter 3.5 mm, length 180 cm, for simultaneous light transmission for 2 instruments

Recommended Combination: Light Cable with Endoscope*



Light Cable Diameter	Endoscope Diameter
4.8 – 5.0 mm	6.5 – 12.0 mm
3.0 – 3.5 mm	3.0 – 6.5 mm
2.0 – 2.5 mm	0.8 – 2.9 mm

***Special endoscopes may deviate.**

Please note: The high light concentration at the end of the light cable causes heat to be generated in the focal point. The end of the light cable should never be placed on the patient's drape or skin as long as the cold light fountain is turned on as the light intensity may cause burns to the patient or set the drape on fire.

The diameter indicated refers to the diameter of the fiber optics.

10-18

Fiber Optic and Fluid Light Cables

for Cold Light Fountains

KARL STORZ — ENDOSKOPE

Fiber Optic Light Cable with 90° Deflection to the Light Source



495 NW	**Fiber Optic Light Cable,** with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 180 cm

Fiber Optic Light Cable with 90° Deflection to the Instrument



495 NVC 495 NV/NVL

495 NVC	**Fiber Optic Light Cable,** with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm
495 NVL	**Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 3.5 mm, length 300 cm
495 NV	**Fiber Optic Light Cable,** with 90° deflection to the instrument, diameter 3.5 mm, length 230 cm

Light Adaptor, angled 90°



495 EW	**Light Adaptor,** angled 90°, diameter 4.8 mm, free rotatable, to connect with standard telescopes

Fiber Optic Light Cables for Headlights



495 NAS	**Fiber Optic Light Cable,** with straight connector, diameter 3.5 mm, length 230 cm

Fluid Light Cables for Cold Light Fountains



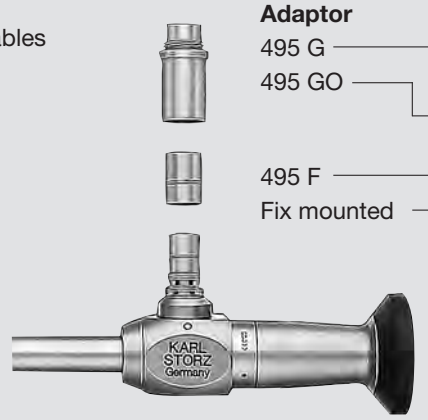
495 FP	**Fluid Light Cable,** diameter 3 mm, length 250 cm
495 FR	**Fluid Light Cable,** diameter 5 mm, length 250 cm
495 FS	**Fluid Light Cable,** diameter 2 mm, length 220 cm

10-18

Adaptor

for Light Sources and Light Cables

HOPKINS® telescopes with
universal connector for light cables



Adaptor	Light Cables
495 G	**KARL STORZ**
495 GO	Olympus/Winter/Stryker & Ibe
	Olympus/Winter & Ibe with attached lens
495 F	Wolf
Fix mounted	ACMI
	Zimmer

Manufacturer	I = Instrument CF = Cold Light Fountain LC = Light Cable	KARL STORZ				
		Light Cable	Cold Light Fountain	Previous Instrument	Current Instrument	Special Applications
ACMI	I	495 W	–	–	–	ACMI connector to ACMI connector 495 Y
	CF	495 PA	–	–	–	
	LC	–	495 C	–	–	
Downs	CF	495 PA	–	–	–	
Dyonics	CF	495 Q	–	–	–	
	LC	–	495 E	–	–	
Effner	CF	495 Q	–	–	–	
Fuji	CF	495 FU	–	–	–	
KLI	CF	495 PA	–	–	–	
	LC	–	495 C	–	–	
Machida	CF	495 SM		–	–	
Olympus	CF	**20** 0300 30 495 SON	–	–	–	Olympus Techno Fountain for KARL STORZ Cable 81495 OT, Olympus Light Cable for KARL STORZ Techno Fountain 81450/81495 OL
	LC	–	495 D	–	–	
Pentax	CF	495 T	–	–	–	
	LC	–	495 D	–	–	
HSW	CF	495 Q	–	–	–	
	LC	–	495 E	495 N	495 N	
Stryker	I	495 ST	–	–	–	
	CF	495 PA	–	–	–	
Richard Wolf	I	495 X	–	–	–	
	CF	495 Q	–	–	–	
	LC	–	495 E	495 M	–	
Olympus/ Winter & Ibe	CF	495 S	–	–	–	**495 S:** The use of KARL STORZ fiberscopes with integrated fiber optic light cables and KARL STORZ light cables with non-graduated distal connection (diameter 7mm) requires an additional **495 PWS** to Adaptor **495 S.**
	LC with attached lens	–	–	495 GO	495 GO	

10-18



DOCUMENTATION, DATA MANAGEMENT AND IMAGE DISTRIBUTION

KARL STORZ AIDA® 158-163

SCENARA® 164-167

MULTISWITCH® 168-171

KARL STORZ AIDA® NEW

Documentation

The name AIDA® stands for the comprehensive implementation of all documentation requirements arising in surgical procedures:

A tailored solution that flexibly adapts to the needs of every specialty and thereby allows for the greatest degree of customization.

This customization is achieved in accordance with existing clinical standards to guarantee a reliable and safe solution.

Proven functionalities merge with the latest trends and developments in medicine to create a whole new experience of documentation – AIDA®.

AIDA® allows seamless integration into existing infrastructures and exchanges data with other systems using common standard interfaces.

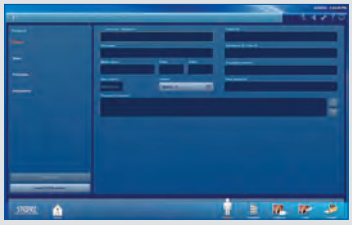
Functions and Capabilities:

- Multifunctional image and video data recorder
- Support of DP and HDMI/DVI-D video input signals
- Entry of patient data via DICOM worklist, keyboard, SMARTSCREEN® or touch screen
- Integrated checklist
- Still image and video sequences capture in FULL HD, 4K and 3D quality
- Synchronous or asynchronous recording of two sources
- Image and video data capture via camera buttons, footswitch, SMARTSCREEN®, touch screen or keyboard
- Image and video data editing
- Data storage via DICOM, on external USB storage media, DVD or internal data memory
- Printing of image data
- Retrieval and export of previously saved image and video data
- Equipment cart installation via screen



10-18

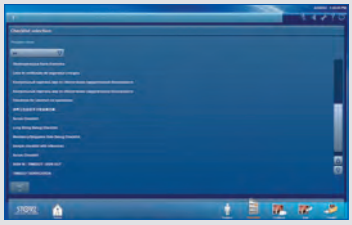
Workflow-oriented use



Patient

Entering patient data has never been this easy.

AIDA® allows seamless integration into existing infrastructures such as HIS and PACS. It enables bidirectional communication and transfer of data via DICOM. All important patient information is just a click away.



Checklist

Central administration and documentation of time-out.

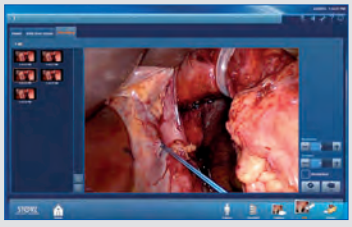
The checklist simplifies the documentation of all critical steps in accordance with clinical standards. All checklists can be adapted to individual needs.



Record

High-quality documentation through freeze frames and videos in FULL HD, 4K and 3D.

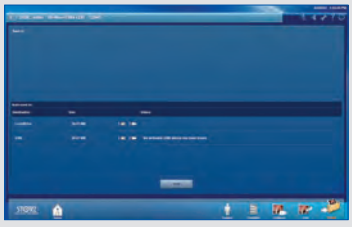
The Dual Capture function allows for the parallel (synchronous or independent) recording of two sources, for example, room camera, endoscopic camera, etc.. All recorded media can be marked for further processing with just one click.



Edit

With the Edit module, simple adjustments to recorded still images and videos can be completed very quickly.

Recordings can be rapidly optimized and then directly placed in the report. In addition, freeze frames can be cut out of videos, processed and saved. Markings from the Record module can be used for quick selection.



Complete

The completion of documentation has never been easier. AIDA® offers a large selection of storage locations. The data exported to each storage location can be defined. The Intelligent Export Manager (IEM) then carries out the export in the background. To prevent data loss, the system keeps the data until they have been successfully exported.



Reference

All important patient information is always available.

Completed procedures including all information, still images, videos, and checklist reports can be easily retrieved from the Reference module.

KARL STORZ AIDA® NEW

Overview

KARL STORZ — ENDOSKOPE

Storage Locations

External USB drive



Printer



549 MG

Network



Internal hard drive

AIDA® with SMARTSCREEN®, documentation system



WD 350-EN*

Sources

IMAGE1 S CONNECT®, basic module



TC 200EN/TC 201EN

IMAGE1 S™ X-LINK, module for flexible and rigid endoscopy



TC 301

Video Endoscope Adaptors



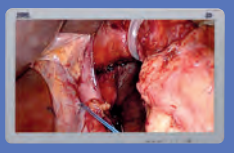
TC 001, TC 013

Flexible Video Endoscopes



Destinations

Monitor



TM 330

IMAGE1 S™ 4U-LINK, module for rigid endoscopy, 4K technology



TC 304

IMAGE1 S™ 4U One-Chip 4K UHD Camera Head



e.g., TH 120, TH 100

Rigid Endoscopes



Sources

IMAGE1 S CONNECT®, basic module



TC 200EN/TC 201EN

IMAGE1 S D3-LINK®, module for 3D endoscopy and VITOM® 3D



TC 302

TIPCAM®1 S 3D LAP, 3D video laparoscope



e.g., 26605 BA

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* **Also available in the following languages:** DE, ES, FR, IT, PT, RU

KARL STORZ AIDA® NEW

Documentation

- Control via SMARTSCREEN®
- DICOM connection
- FULL HD, 4K and 3D capture
- Integrated checklist

with touch screen



	WD 350-EN* **AIDA® with SMARTSCREEN®**
	documentation system set, for recording still images and videos, dual channel up to 4K, 2D/3D

Specifications:

Line voltage	100 – 240 VAC
Power frequency	50/60 Hz
Video signal inputs	1x DP, 1x HDMI/DVI-D
Input frequency	47 – 63 Hz
Output resolution	up to 3840 x 2160, 16:9
Network	2x RJ45
Image formats	BMP, JPG, PNG
Video formats	MPEG-4, MPEG-2, MOV
Patient data	saved as .xml file
Storage locations	internal memory (2 TB), USB storage media, via 2.0 and 3.0 (flash drive and HDD), network drive, FTP, SFTP, DICOM, SCENARA® .store

Components/Spare Parts see chapter 13

* **Also available in the following languages:** DE, ES, FR, IT, PT, RU

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KARL STORZ AIDA® NEW

Overview

KARL STORZ — ENDOSKOPE

Storage Locations

External USB drive



Printer



549 MG

Network



Internal hard drive

AIDA®, documentation system



WD 300-EN*

21.5" Touch Screen



20 0906 21

Sources

IMAGE1 S CONNECT®, basic module



TC 200EN/TC 201EN

IMAGE1 S™ X-LINK, module for flexible and rigid endoscopy



TC 301

Video Endoscope Adaptors



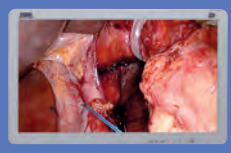
TC 001, TC 013

Flexible Video Endoscopes



Destinations

Monitor



TM 330

IMAGE1 S™ 4U-LINK, module for rigid endoscopy, 4K technology



TC 304

IMAGE1 S™ 4U One-Chip 4K UHD Camera Head



e.g., TH 120

Rigid Endoscopes



Sources

IMAGE1 S CONNECT®, basic module



TC 200EN/TC 201EN

IMAGE1 S D3-LINK®, module for 3D endoscopy and VITOM® 3D



TC 302

TIPCAM®1 S 3D LAP, 3D video laparoscope



e.g., 26605 BA

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* **Also available in the following languages:** DE, ES, FR, IT, PT, RU

KARL STORZ AIDA® NEW

Documentation

- Control via touch screen
- DICOM connection
- FULL HD, 4K and 3D capture
- Integrated checklist



	WD 300-EN* **AIDA®**
	documentation system set, for recording still images and videos, dual channel up to 4K, 2D/3D
for use with:	● **21.5" Touch Screen 20** 0906 21

Specifications:

Line voltage	100 – 240 VAC
Power frequency	50/60 Hz
Video signal inputs	1x DP, 1x HDMI/DVI-D
Input frequency	47 – 63 Hz
Output resolution	up to 3840 x 2160, 16:9
Netzwerk	2x RJ45
Image formats	BMP, JPG, PNG
Video formats	MPEG-4, MPEG-2, MOV
Patient data	saved as .xml file
Storage locations	internal memory (2 TB), USB storage media, via 2.0 and 3.0 (flash drive and HDD), network drive, FTP, SFTP, DICOM, SCENARA® .store

Components/Spare Parts see chapter 13

* **Also available in the following languages:** DE, ES, FR, IT, PT, RU

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Today, the documentation of endoscopic examinations and procedures is a standard requirement that confronts hospitals and practices with the increasingly complex handling of large data volumes. Continuous progress in medicine is associated with a growing need for, and interest in, a solution that allows easy data distribution and management. Only collected data that are meaningfully stored and easily accessible can be used later for patient follow-up or for conducting studies and research. In addition, medical professionals are interested in simplified processes, increased productivity, and patient satisfaction. SCENARA® offers a new, platform-independent and modular software solution that meets these requirements and currently consists of two modules.

Functions and Capabilities:

SCENARA® .STORE

Image and video data storage and management

- Endoscopic data from various systems at a central location with fast and mobile data access

SCENARA® .CONNECT

Centralized communication interface

- Interoperability between documentation solutions from KARL STORZ and other available information and archiving systems

SCENARA® .STORE and SCENARA® .CONNECT

- Scalable solutions for facilities of all sizes
- Software updates and upgrades
- Service contract for software maintenance, troubleshooting and software updates without additional costs





10-18

SCENARA® .store

Intelligent Data Storage and Management

Data Management

Based on a scientifically tested set of rules, image and video data can be compressed or even deleted after a defined time period.

Support in Finding Information

Fast Data Access

SCENARA® .STORE provides flexible and easy access to endoscopic image and video data.

As a result, productivity and patient care can be improved, time saved, costs reduced, and patient satisfaction increased.

Smart Function and Intuitive Use

View and Edit

SCENARA® .STORE features a virtual examination concept and additional navigation tools that ensure excellent user orientation at any time, even during long recordings.

Image and video data can be directly and quickly edited for further use. Videos can be cut and still images generated from videos with just a few clicks.

Compare and Share

SCENARA® .STORE allows users to compare the recordings of patients from the same procedure or from several procedures to access the patient follow-up.

In addition, patient data can be made available to other users in a controlled and documented manner.

Export

SCENARA® .STORE allows the easy and rapid export of all image and video data, optionally in anonymized form. These are then available for immediate use, e.g., for forwarding to the patient or for presentation purposes.

SCENARA® .connect

Interfaces

SCENARA® .CONNECT offers a centralized communication interface to existing information systems, which leads to considerable savings.

Reduced Complexity

SCENARA® .CONNECT reduces the complexity of the workflow by ensuring optimal interoperability between the KARL STORZ documentation solutions and existing information and archiving systems from different manufacturers.

Efficiency

SCENARA® .CONNECT increases efficiency as manual data transfer is no longer necessary.

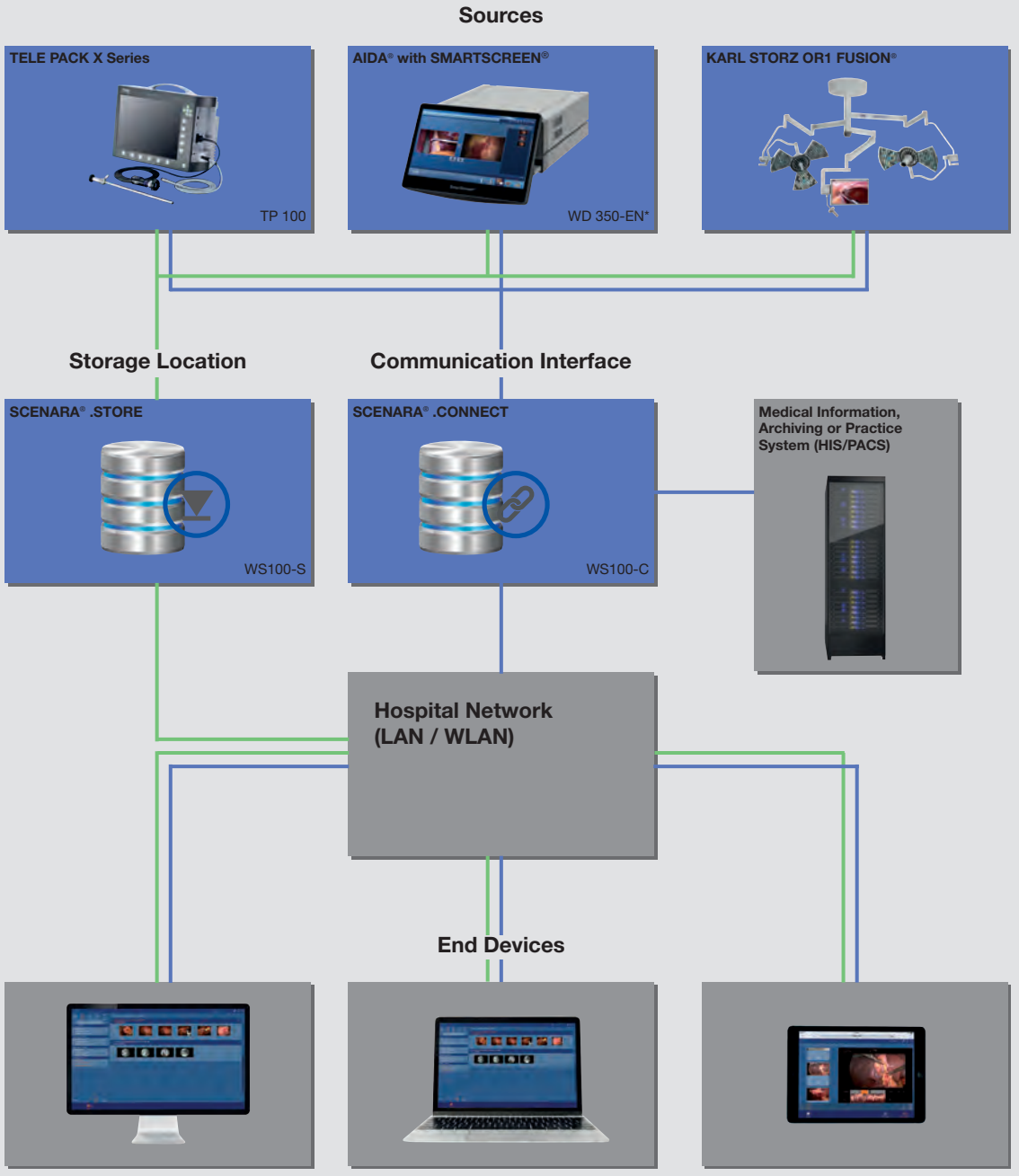
Safety

SCENARA® .CONNECT improves the safety of patient data by preventing wrong save destinations and data loss.

Clinical Integration

SCENARA® .CONNECT permits easy integration and seamlessly fits into existing clinical infrastructures.

10-18



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This graphic presents a possible scenario

* **Also available in the following languages:** DE, ES, FR, IT, PT, RU

	WS100-S **SCENARA® .STORE**
	software and modality license (per KARL STORZ documentation unit – KARL STORZ OR1 FUSION®, KARL STORZ AIDA® and TELE PACK X Series). Please note the installation requirements.

	WS100-C **SCENARA® .CONNECT**
	software and modality license (per KARL STORZ documentation unit – KARL STORZ OR1 FUSION®, KARL STORZ AIDA® and TELE PACK X Series). Please note the installation requirements.

	WSOFTINSTALL **Software Installation and Configuration**

	WSOFTW **Software Maintenance Contract**
	including software updates (to ensure an up-to-date system), provision of workarounds and patches, telephone support, upgrades at discounted price

MULTISWITCH®

Image Distribution

A compact solution enables the easy and efficient distribution and individual routing of several high-resolution video signals, even without an integrated OR.

MULTISWITCH® offers the possibility to manage and distribute up to 4 DVI sources (camera systems, PC etc.) to four independent outputs (monitors, recording equipment).

The MULTISWITCH® unit can be placed directly on the videocart and can be upgraded with all endoscopy towers from KARL STORZ.

Functions and Areas of Application

- Medical-grade routing and changeover solution for DVI-D signals
- Easy administration and distribution of up to four DVI video signals to up to four outputs
- Two modes of operation – switcher and router
- Convenient use via four membrane keys. LEDs on the front panel display the operating mode in use.
- Easy switching or routing of DVI-D sources in the OR or during live transmission
  The simultaneous connection of a documentation system enables the recording of up to four sources.
- Convenient distribution of DVI-D sources in the OR to various monitors or documentation systems

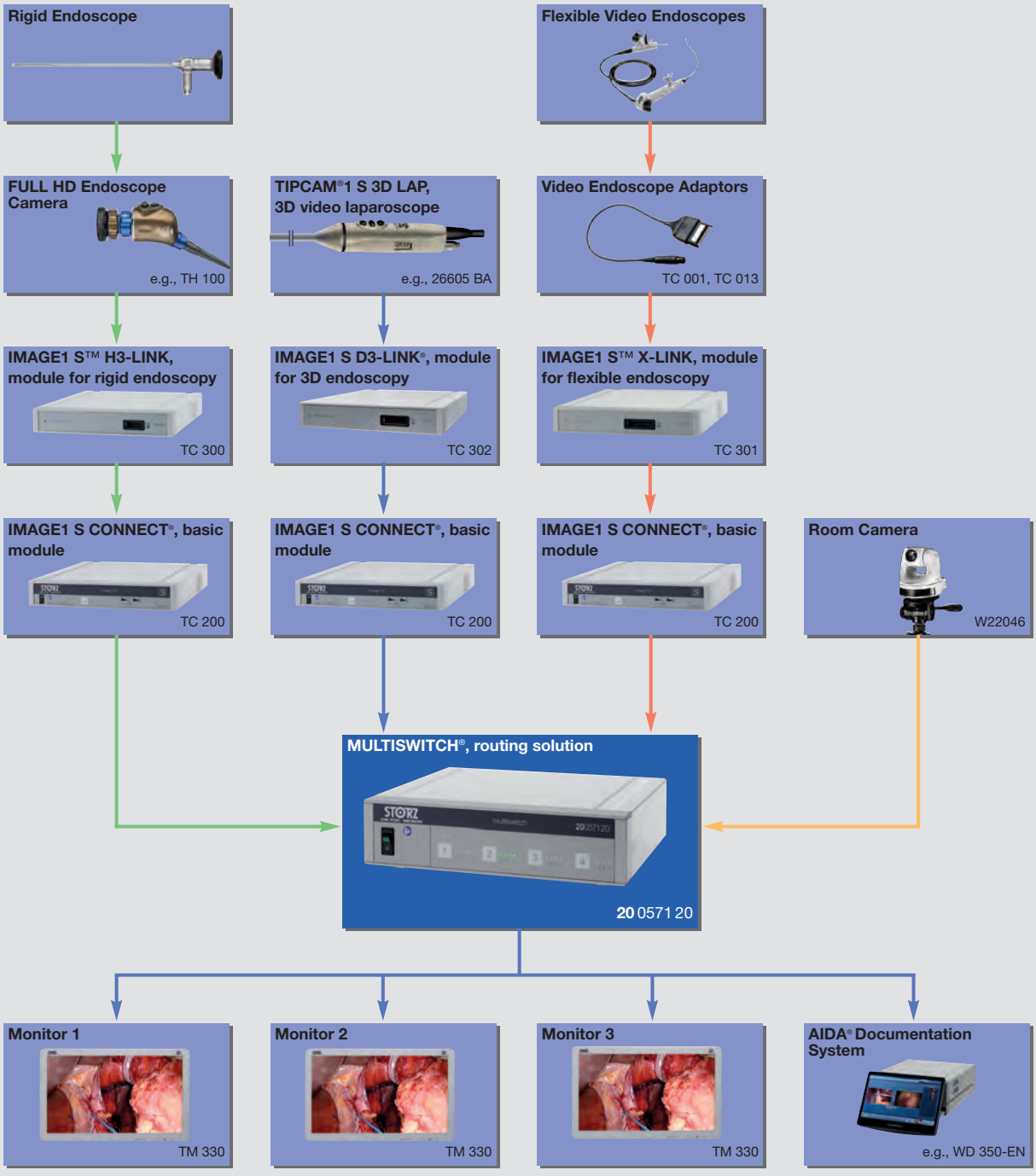


10-18

Mode A (switcher)

Enables the simple selection of a source and simultaneous distribution to all four outputs. This mode is used when, during live transmission, an image is switched from various sources and has to be distributed to all connected monitors.

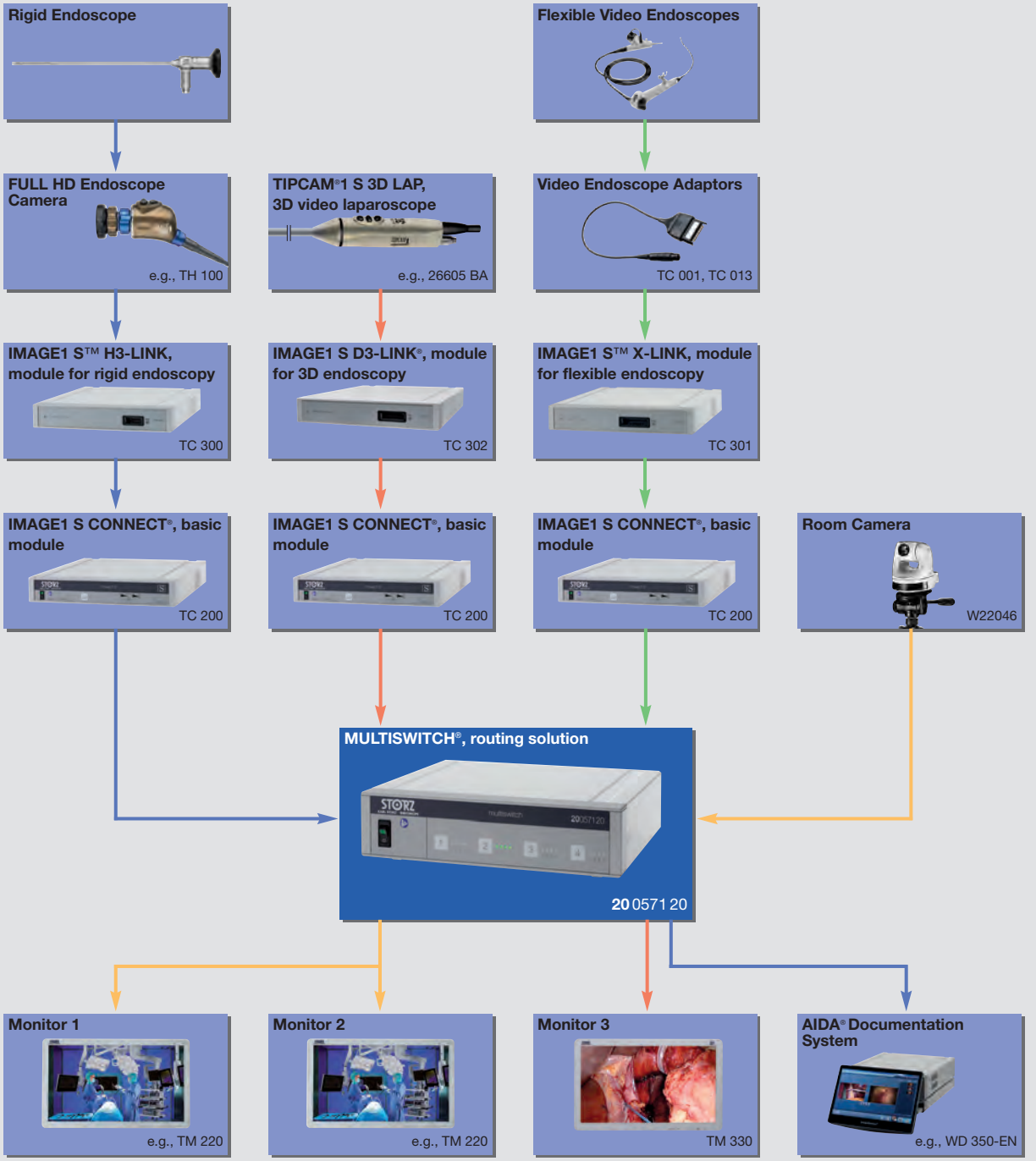
This is illustrated in the graphic below as follows:
The signal of the TIPCAM®1 S 3D LAP camera (blue arrow) is switched via MULTISWITCH® to all outputs (blue arrow).



Mode B (router)

Enables distribution of any four sources to four outputs. This mode is always useful if a flexible distribution of individual DVI sources to the outputs is necessary.

This is illustrated in the graphic below as follows:
The signal of the TIPCAM®1 S 3D LAP camera (orange arrow) is routed via the MULTISWITCH® to Monitor 3. The signal of the endoscopic camera (blue arrow) is routed via the MULTISWITCH® to AIDA®. The signal of the room camera (yellow arrow) is routed to Monitors 1 and 2.



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- Switching and routing solution
- Control via the unit front panel



	20 0571 20 **MULTISWITCH®**
	for DVI-D video signal transmission, control via a front-button operation, with 4 video inputs DVI-D (DVI jack) and 4 video outputs DVI-D (DVI jack), for use as 1 x 4 DVI-D switch or 4 x 4 DVI-D router

Specifications:

Line voltage	100 – 240 VAC
Power frequency	50/60 Hz
Video inputs	4x DVI-D
Video outputs	4x DVI-D
Control	4 membrane keys with LED display
Max. video resolution	1920 x 1080p, 50/60 Hz
External dimensions (w × h × d)	305 x 83.7 x 249 mm
Weight	2.2 kg
Protection class	IP20 (DIN 60529)



HOLDING SYSTEMS

MECHANICAL
HOLDING SYSTEMS 175-177

VERSACRANE™
HOLDING SYSTEM 178-180

Mechanical Holding Systems

with KSLOCK

The mechanical holding systems from KARL STORZ offer a versatile, convenient and cost-effective possibility for the secure positioning of instruments and telescopes.

A wide range of accessories enables the systems to be configured for any desired fields of application. The robust construction ensures reliable positioning without oscillation.

Special Features:

- **Simple, fast and accurate positioning**
- **Many fields of application possible thanks to various articulated stands and a wide range of accessories**
- **Flexible positioning enables a large number of different positions**
- **All joints can be easily released or fixed by means of the central clamp**
- **Socket for use with European and United States standard rails of OR table**
- **Variable height adjustment by using the socket**
- **Extension Rod 28172 HM for the adjustment of particularly large working distances, for example, the VITOM® system**
- **Ergonomical positioning at the operating table**
- **Eases the work routine of the assistant**
- **Instruments and telescopes are clamped securely**
- **Steady imaging of the operation field**
- **Maintenance-free solid construction**
- **Autoclavable**
- **KSLOCK rapid coupling for mounting clamping jaws, instruments and accessories with KSLOCK pins**

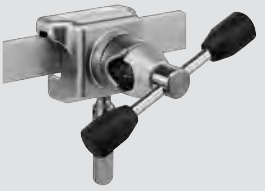


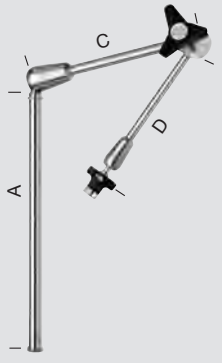
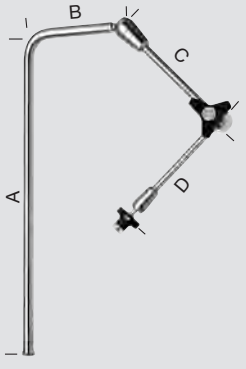
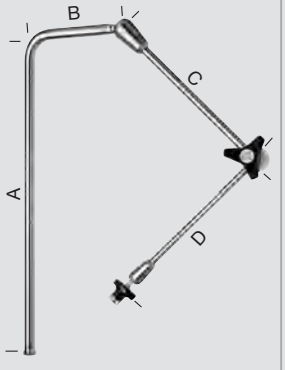
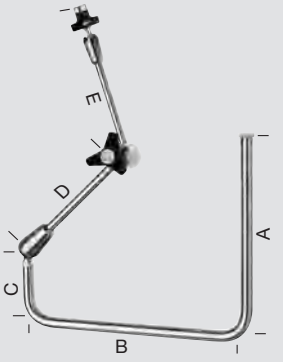
10-18

KS*lock*



Socket +  **Articulated Stand** +  **Clamping Jaw**

Socket	
Standard Socket	**Rotation Socket**
28172 HK	28172 HR
	

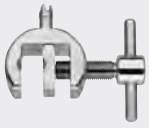
Articulated Stand							
straight		**L-shaped**		**L-shaped, long**		**U-shaped**	
28272 HA		28272 HB		28272 HC		28272 HD	
							
A 30 cm	B –	A 48 cm	B 15 cm	A 48 cm	B 15 cm	A 25 cm	B 31 cm
C 20 cm	D 17 cm	C 20 cm	D 17 cm	C 27 cm	D 24 cm	C 10 cm	D 20 cm
						E 17 cm	

To complete the mechanical holding system, a clamping jaw is required.
Clamping Jaws for the Mechanical Holding System see page 177

10-18

Clamping Jaws

KSlock

	28272 UGN	**Clamping Jaw,** metal, clamping range 16.5 – 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes
	28272 UKN	**Clamping Jaw,** metal, clamping range 4.8 – 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths
	28272 UGK	**Clamping Jaw,** with ball joint, large, clamping range 16.5 – 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes
	28272 UKK	**Clamping Jaw,** with ball joint, small, metal, clamping range 4.8 – 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths
	28272 UL	**Clamping Jaw,** universal, clamping range 0 – 18 mm, with quick release coupling KSLOCK (male)
	28272 UFN	**Clamping Jaw,** for videoscopes and fiberscopes, with quick release coupling KSLOCK (male), for use with rigid and flexible videoscopes or fiberscopes and KARL STORZ holding systems with quick release coupling KSLOCK
	28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK

Accessories

	28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.
	28172 HM	**Extension Rod,** 50 cm, with lateral clamp for height adjustment of the articulated stand, for use with Articulated Stands 28272 HA/HB/HC and Sockets 28172 HK/HR
* mtp	041150-20*	**Cover,** with elasticated tip, sterile, for single use, package of 20 STERILE

VERSACRANE™ Holding System

for the convenient positioning of the VITOM® systems

KARL STORZ — ENDOSKOPE

VERSACRANE™ is a versatile holding system that was especially designed for use with the VITOM® system.

The holding system enables easy and precise positioning of the VITOM® for use in many medical fields thanks to the proven KSLOCK standard interface.

- **Ready for immediate use**
  The VERSACRANE™ holding arm is mounted on a mobile stand so that it can be quickly transported to the operating room and positioned before surgery.
- **Individual adjustment**
  Thanks to its gas-spring-supported arm, the VERSACRANE™ holding arm offers weight compensation for the VITOM® system. The braking force of each joint can also be adjusted individually.
- **Single hand use**
  An outstanding feature of the VERSACRANE™ system is its straightforward use. The VITOM® system can thus easily be positioned with one hand.





10-18

VERSACRANE™ Holding System

for the convenient positioning of the VITOM® systems



28272 GS **VERSACRANE™ Holding Arm,** low, for use in the lithotomy position, spring-supported, with quick release coupling KSLOCK, for use with Mobile Stand 28272 GM and KARL STORZ clamping jaws. The VERSACRANE™ holding arm is intended for use with VITOM® scopes/exoscopes.

WARNING: The VERSACRANE™ holding arm cannot be used with rigid endoscopes!

28272 GM **Mobile Stand,** for use with VERSACRANE™ Holding Arm 28272 GS

Clamping Jaws and Accessories for VITOM® 2D:



28272 UGN **Clamping Jaw,** metal, clamping range 16.5 – 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes



28272 CN **Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.

* mtp

041150-20* **Cover,** with elasticated tip, sterile, for single use, package of 20 STERILE

Clamping Jaws and Accessories for VITOM® 3D:

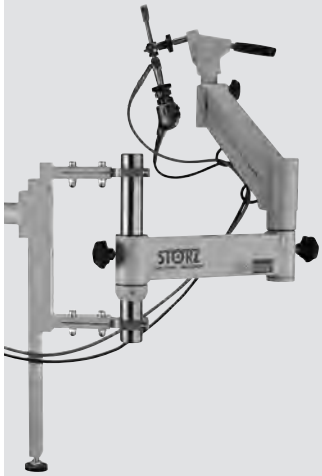


28272 VTK **VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK



TH 001* **Cover,** for VITOM® 3D, sterile, for single use, package of 10 STERILE

VERSACRANE™ Adaptor Set
for examination chairs from Schmitz u. Söhne (alternative to Mobile Stand 28272 GM)



28272 GA **Adaptor Set,** for mounting the VERSACRANE™ holding arm to examination chairs from Schmitz u. Söhne, with 2 adaptors for colposcope bracket, 1 mounting rod and mounting material, for use with VERSACRANE™ Holding Arm 28272 GS and colposcope bracket for examination chairs from Schmitz u. Söhne

Note: A colposcope bracket compatible with the examination chair model must be ordered directly from Schmitz u. Söhne.

It is possible to mount the VERSACRANE™ holding arm gynecological examination chairs from other manufacturers. Please contact us for further information.

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VERSACRANE™ Holding System

for the convenient positioning of the VITOM® systems



28272 HSP	**VERSACRANE™ Holding Arm,** high, mobile, spring-supported, with quick release coupling KSLOCK, for use with KARL STORZ clamping jaws. The VERSACRANE™ holding arm is intended for use with VITOM® scopes. including: **Mobile Stand,** with height adjustment
WARNING:	The VERSACRANE™ holding arm cannot be used with rigid endoscopes!

Clamping Jaws and Accessories for VITOM® 2D:

	28272 UGK	**Clamping Jaw,** with ball joint, large, clamping range 16.5 – 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes
	28272 CN	**Clamping Cylinder,** folding, for flexible mounting of 10 mm telescopes on the telescope sheath, **autoclavable.** The clamping cylinder allows vertical movement and rotation of the telescope.
* mtp	041150-20*	**Cover,** with elasticated tip, sterile, for single use, package of 20 STERILE

Clamping Jaws and Accessories for VITOM® 3D:

	28272 VTK	**VITOM® 3D Clamping Jaw,** with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK
	TH 001*	**Cover,** for VITOM® 3D, sterile, for single use, package of 10 STERILE

10-18



EQUIPMENT CARTS

COR – EQUIPMENT CART GENERATION 182-184

COR EQUIPMENT CART LC 185

ACCESSORIES FOR COR EQUIPMENT CARTS 186-191

E-SERIES MOBILE STANDS 192-193

ACCESSORIES FOR E-SERIES MOBILE STANDS 194

COR – Equipment Cart Generation NEW

KARL STORZ — ENDOSKOPE

Special Features:

- **Fast and intuitive assembly without additional accessories**
- **Individually configurable thanks to modular system**
- **Convenient and functional cable management**
- **A wide range of mounting attachments**
- **Central power supply for all mains and potential equalization connectors**
- **Smooth and easy-to-clean surfaces**
- **Rapid assembly and easy repositioning of drawers or shelves without requiring tools**



Various positions possible for monitor holding arms



Grid bars for easy and straightforward mounting



Push handles with ergonomic design for easy and convenient handling



Convenient storage for mains cords when not in use



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UG 220

Equipment Cart, wide, high, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical subdistributors with 12 sockets, grounding plugs,
Dimensions:
Equipment cart: 830 x 1474 x 730 mm (w x h x d),
Shelf: 630 x 25 x 510 mm (w x h x d),
Caster diameter: 150 mm

including:

Base Module, equipment cart, wide

Cover, equipment cart, wide

Beam Package, equipment cart, high

3x **Shelf,** wide

Drawer Unit with Lock, wide

2x **Equipment Rail,** long

Camera Holder

2x **Mains Cord,** length 100 cm



UG 120

Equipment Cart, narrow, high, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical subdistributors with 12 sockets, grounding plugs,
Dimensions:
Equipment cart: 660 x 1474 x 730 mm (w x h x d),
Shelf: 450 x 25 x 510 mm (w x h x d),
Caster diameter: 150 mm

including:

Base Module, equipment cart, narrow

Cover, equipment cart, narrow

Beam Package, equipment cart, high

3x **Shelf,** narrow

Drawer Unit with Lock, narrow

2x **Equipment Rail,** long

Camera Holder

2x **Mains Cord,** length 100 cm

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Components/Spare Parts see chapter 13



UG 110

Equipment Cart, narrow, small, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical subdistributors with 6 sockets, grounding plugs,

Dimensions:
Equipment Cart: 660 x 1265 x 730 mm (w x h x d),
Shelf: 450 x 25 x 510 mm (w x h x d),
Caster diameter: 150 mm
including:

Base Module, equipment cart, narrow

Cover, equipment cart, narrow

Beam Package, equipment cart, small

2x **Shelf,** narrow

Drawer Unit with Lock, narrow

2x **Equipment Rail,** long

2x **Mains Cord,** length 100 cm



UG 210

Equipment Cart, wide, small, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical subdistributors with 6 sockets, grounding plugs,
Dimensions:
Equipment cart: 830 x 1265 x 730 mm (w x h x d),
Shelf: 630 x 25 x 510 mm (w x h x d),
Caster diameter: 150 mm

including:

Base Module, equipment cart, wide

Cover, equipment cart, wide

Beam Package, equipment cart, small

Shelf, wide

2x **Drawer Unit with Lock,** wide

2x **Equipment Rail,** long

2x **Mains Cord,** length 100 cm

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Components/Spare Parts see chapter 13

COR NEW

Equipment Cart LC



UG 230

Equipment Cart LC, rides on 4 antistatic dual wheels equipped with locking brakes, energy beam with integrated electrical subdistributors with 6 sockets, grounding plugs,
Dimensions:
Equipment cart: 830 x 1474 x 730 mm (w x h x d),
Shelf: 630 x 25 x 510 mm (w x h x d),
Caster diameter: 125 mm

including:

Base Module, equipment cart LC

Cover, equipment cart LC

Beam Package, equipment cart LC

Shelf, wide

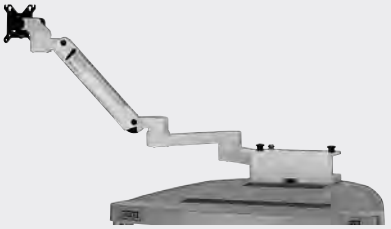
Drawer Unit with Lock, wide

Camera Holder

2x **Mains Cord,** length 100 cm

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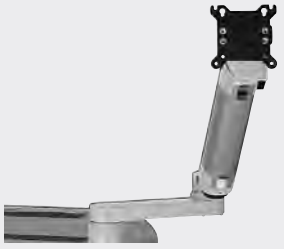
Components/Spare Parts see chapter 13



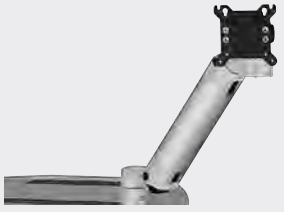
UG 540 **Monitor Swivel Arm,** height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 780 mm, from center 1170 mm, loading capacity max. 15 kg, with monitor mount VESA 75/100, for use with Equipment Carts UG xxx



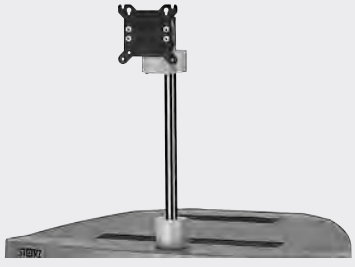
UG 530 **Swivel Arm,** for navigation camera, height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 880 mm, from center 1270 mm, loading capacity max. 1.5 kg, for use with Equipment Carts UG xxx and navigation camera



UG 520 **Monitor Holding Arm,** long, height and side adjustable, tilting, swivel range up to 320°, reach 760 mm, loading capacity max. 15 kg, with monitor holder VESA 75/100, for use with Equipment Carts UG xxx

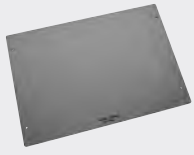


UG 510 **Monitor Holding Arm,** height and side adjustable, tilting, can be mounted either on the left or on the right side, swivel range up to 320°, reach 530 mm, loading capacity max. 15 kg, with monitor holder VESA 75/100, for Equipment Carts UG xxx



UG 500 **Monitor Holder,** height adjustable, swiveling and tilting, central mount, swivel range approx. 360°, loading capacity max. 18 kg, with monitor mount VESA 75/100, for use with Equipment Carts UG xxx

UG 501 **Monitor Holder Adaptor,** for central mounting of monitor holding arms on the rear attachment points of the COR equipment carts UG xxx for use with UG 500, UG 510 and UG 520



UG 614 **Counter Balance Plate,** for improved stability when mounting a monitor holding arm, Dimensions: 356 x 6 x 478 (w x h x d), for use with Equipment Carts UG xxx

UG 615 **Auxiliary Counter Balance Plate,** for improved stability when mounting a monitor holding arm, Dimensions: 290 x 6 x 478 mm (w x h x d), for use with Equipment Carts UG xxx

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UG 310	**Isolation Transformer,** 200 – 240 V, 2000 VA, with 3 special mains socket, automatic cutout, 3 grounding plugs, Dimensions in mm: 330 x 90 x 495 (w x h x d), for use with Equipment Carts UG xxx
UG 300	**Same,** 100 – 120 V



UG 410	**Earth Leakage Monitor,** 200 – 240 V, for mounting to equipment carts, Control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG 310
UG 400	**Earth Leakage Monitor,** 100 – 120 V, for mounting to equipment carts, Control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG 300



UG 700	**Mains Cord,** with angled plug, length 100 cm



20 0102 70	**Potential Equipotential Cable,** length 500 cm
20 0103 70	**Potential Equipotential Cable,** length 200 cm
20 0105 70	**Potential Equipotential Cable,** length 150 cm
20 0106 70	**Potential Equipotential Cable,** length 100 cm



29005 PA-DR	**Potential Equipotential Cable Set,** for equipment carts, for 5 units, including Potential Equipotential Cable 5x **20** 0106 70, 1x **20** 0105 70, 1x **20** 0102 70 for 5 units, for use with COR equipment carts and Equipment Cart 29005 DRB/DRS



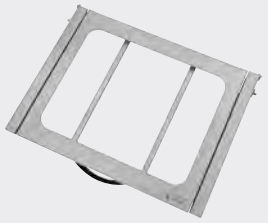
UG 605	**Keyboard Tray,** narrow, for mounting under narrow Shelf UG 603, load capacity max. 10 kg, Dimensions: 430 x 480 mm (w x d), for use with Equipment Carts UG xxx
UG 606	**Keyboard Tray,** wide, for mounting under wide Shelf UG 604, load capacity max. 10 kg, Dimensions: 630 x 480 mm (w x d), for use with Equipment Carts UG xxx



UG 603	**Shelf,** narrow, load capacity max. 60 kg, dimensions: 450 x 25 x 510 mm (w x h x d), for use with Equipment Carts UG xxx
UG 604	**Shelf,** wide, load capacity max. 60 kg, dimensions: 630 x 25 x 510 mm (w x h x d), for use with Equipment Carts UGxxx



UG 601	**Drawer Unit with Lock,** small, max. shelf load 60 kg, max. drawer load 5 kg, with cable slot, dimensions: 450 x 126 x 510 mm (w x h x d), for use with Equipment Carts UG xxx
UG 602	**Drawer Unit with Lock,** wide, max. shelf load 60 kg, max. drawer load 5 kg, with cable slot, dimensions: 630 x 126 x 510 mm (w x h x d), for use with Equipment Carts UG xxx



UG 610	**Sliding Tray Holder,** narrow, load capacity max. 10 kg, dimensions: 450 x 510 mm (w x d), for use with Equipment Carts UG xxx
UG 611	**Sliding Tray Holder,** wide, load capacity max. 10 kg, dimensions: 630 x 510 mm (w x d), for use with Equipment Carts UG xxx



UG 608	**Equipment Rail,** long, for mounting to side of equipment cart, dimensions: 300 x 25 x 10 mm (w x h x d), for Equipment Carts UG xxx
UG 607	**Equipment Rail,** short, for mounting to side of equipment cart, dimensions: 170 x 25 x 10 mm (w x h x d), for Equipment Carts UG xxx



UG 619	**Cable Manager,** 2-piece, for mounting to vertical beam, package of 2, for use with Equipment Carts UG xxx

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	UG 612	**Camera Holder,** for mounting camera heads, with detachable inlays, compatible with all endoscopy cameras from KARL STORZ, for use with Equipment Carts UG xxx
	UG 622	**Camera Holder, eyepiece,** for holding camera heads, compatible with all KARL STORZ endoscopy camera heads with standard eyepiece mounts, for use with Equipment Carts UG xxx
	UG 609	**Bottle Holder,** for CO_2 bottles, max. diameter 210 mm, dimensions: 230 x 280 x 210 mm (w x h x d), for use with Equipment Carts UG xxx
	UG 627	**Adaptor Plates, for twin CO_2 bottle holder,** for 2 CO_2 bottles in combination with 2x UG 609 Bottle Holder, max. diameter 210 mm, dimensions in mm (w x d): 1x 250 x 250 mm and 1x 250 x 150 mm, for use with Equipment Carts UG xxx including: 2x **Adaptor Plates** 10x **Countersunk Screws M6x12** 10x **Spring Nuts M6**
	UG 623	**Multifunctional Holder,** 2-part, for mounting poles, diameter 25 mm, package of 2, for use with Equipment Carts UG xxx
	UG 623L	**Multifunctional Holder,** long, 2-part, for mounting poles, diameter 25 mm, package of 2, for use with Equipment Carts UG xxx

	UG 613	**Holder for Support Element,** for mounting Bottle Stand Holder **20** 3000 33, for use with Equipment Carts UG xxx
	29005 SKN	**Tube Clip,** to attach to suction and irrigation tubes, for mounting to equipment rails
	UG 625 UG 626	**IV Pole,** with 2 bottle hooks à 5 kg, length 130 cm, for use with Equipment Carts UG xxx including: **IV Pole** **Multifunctional Holder** **Same,** length 118 – 203 cm
	13991 ET 13991 DET	**Video Endoscope Holder,** for mounting to 2 equipment rails including: **Video Endoscope Holder** **Drip Container** **Double Video Endoscope Holder,** for mounting to 2 equipment rails including: **Double Video Endoscope Holder** **2 Drip Containers**

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Components/Spare Parts see chapter 13

	29005 AVS	**Plug Receptacle for Video Endoscopes,** for mounting to Irrigator Rods 29003 S/SV as well as Video Endoscope Holders 13991 ET and 13991 DET, for use with equipment carts
	UG 624	**Pump Holder,** for mounting suction pump UNIMAT® 30 **25** 3200 01 to equipment cart UG xxx
	29005 DFH 29005 EFH	**Footswitch Holder,** for two- and three-pedal footswitches, for mounting to Equipment Rails UG 608 and 29003 GS, for use with Footswitches **20** 0143 30, **20** 0154 30, **20** 0164 30, **20** 0166 30, **20** 0168 31, **20** 0178 30 and **20** 0178 31 **Footswitch Holder,** for one-pedal footswitch, for mounting to Equipment Rails UG 608 and 29003 GS, for use with Footswitches **20** 0141 30, **20** 0142 30 and **20** 0178 32
	UG 901	**Footswitch Holder,** for mounting to Equipment Rails UG 608 and 29003 GS, for use with One-Pedal HF Footswitch UF 901
	UG 902	**Footswitch Holder,** for mounting to Equipment Rails UG 608 and 29003 GS, for use with Two-Pedal HF Footswitch UF 902
	29005 AK	**Wire Tray,** for accessories, for mounting to equipment rails, dimensions (w x h x d): 300 x 100 x 200, for use with equipment carts

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20 0200 81 **TROLL-E Mobile Stand,** rides on 4 antistatic dual wheels, 2 equipped with locking brakes, for mounting monitors with VESA 75/100 connection, integrated cable conduit in vertical beam, 1 shelf and cable manager, load capacity for monitor: max. 18 kg,
Dimensions:
Mobile stand: 670 x 1660 x 670 mm (w x h x d),
Shelf: 455 x 350 mm (w x d),
Caster diameter: 100 mm
Trolley is delivered unassembled.

including:

Subrack, for mobile stand

Beam Module

Shelf



20 0200 87 **SHORT-E HF Cart,** rides on 4 antistatic dual wheels, 2 equipped with locking brakes, integrated cable conduit in vertical beam, 1 HF shelf, for AUTOCON® III 400, with storage hook, cable manager, max. load capacity 51 kg,
Dimensions:
HF cart: 670 x 1020 x 670 mm (w x h x d),
HF shelf: 405 x 452 mm (w x d),
Caster diameter: 100 mm
Trolley is delivered unassembled.

including:

Subrack, for mobile stand

HF Shelf

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Components/Spare Parts see chapter 13



20 0200 62



20 0200 63

20 0200 62 **Beam Module,** with integrated cable conduit in vertical beam and monitor holder for mounting monitors with VESA 75/100 connection, load capacity for monitor: max. 18 kg, dimensions: 140 x 750 x 260 mm (w x h x d), for use with subracks for Mobile Stands **20** 0200 60 and **20** 0200 61

20 0200 63 **Beam Module,** with standard tube, with integrated cable conduit in vertical beam and monitor holder for mounting monitors with VESA 75/100 connection, dimensions: 140 x 750 x 260 mm (w x h x d), for use with Subracks **20** 0200 60 and **20** 0200 61



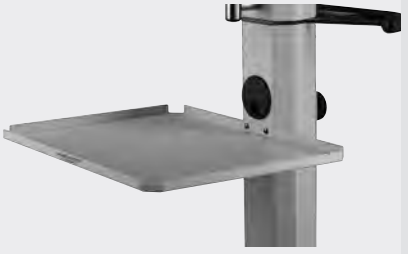
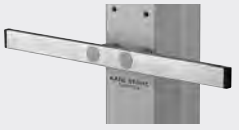
20 0200 58 **Pump Cart,** for UNIMAT® 30 suction pump
including:
Subrack, for mobile stand
Accessory Set
Pump Holder
Container Holder



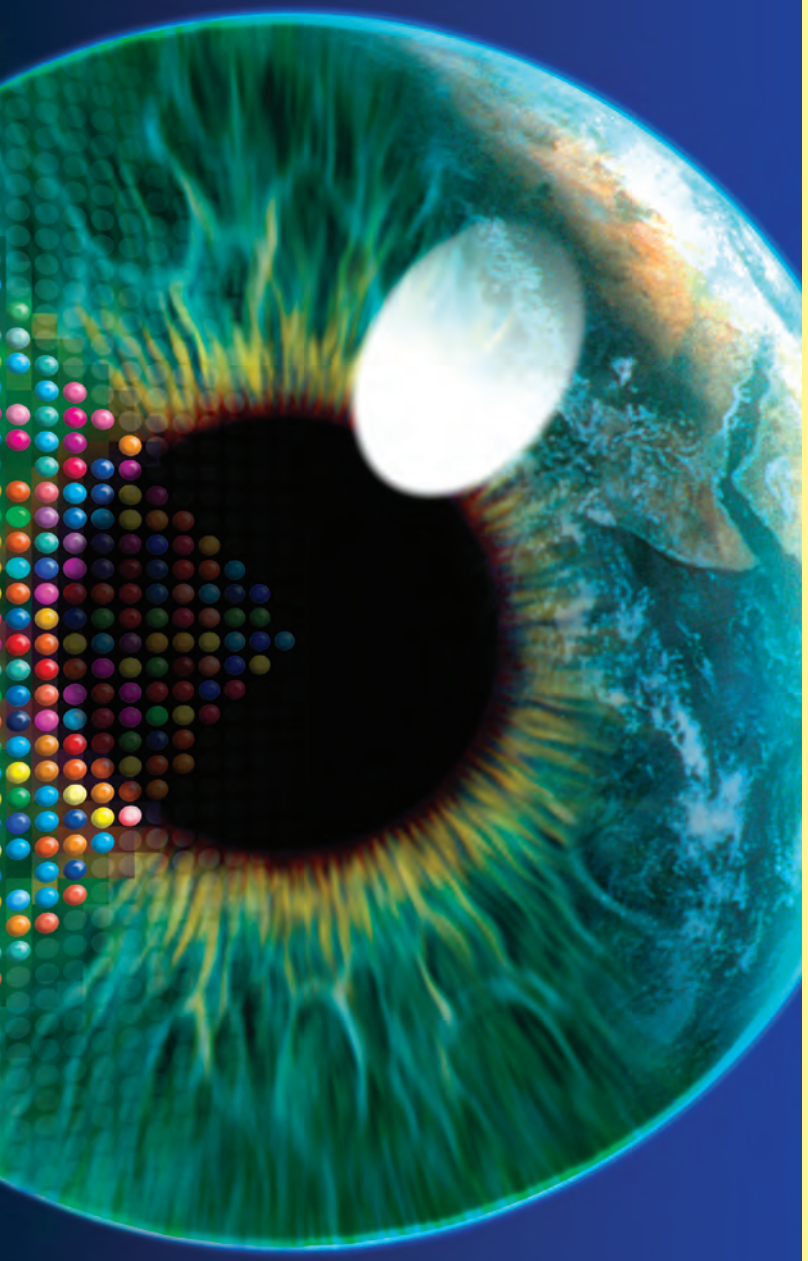
20 0200 59 **STOR-E® Transport Cart,** for the POINT SETTER holding arm
including:
Mobile Stand
Attachment Set
Wire Basket
Manual

Components/Spare Parts see chapter 13

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	**20** 0200 46	**Keyboard Shelf,** load capacity max. 5 kg, dimensions: 465 x 185 mm (w x d), including a holding arm, short, two spaces and two clamping screws, for use with Beam Module **20** 0200 62
	**20** 0200 47	**Shelf,** incl. installation accessories, max. capacity 12 kg, dimensions: 490 x 395 mm (w x d), for use with subracks for Mobile Stands **20** 0200 60 and **20** 0200 61
	**20** 0200 49	**Equipment Rail,** for mounting to central boom, incl. installation accessories, dimensions: 450 x 25 x 10 mm (w x h x d), for use with Subrack for Mobile Stands **20** 0200 60 and **20** 0200 61
	UG 901	**Footswitch Holder,** for mounting to Equipment Rails UG 608 and 29003 GS, for use with One-Pedal HF Footswitch UF 901
	UG 902	**Footswitch Holder,** for mounting to Equipment Rails UG 608 and 29003 GS, for use with Two-Pedal HF Footswitch UF 902
	29005 DFH 29005 EFH	**Footswitch Holder,** for two- and three-pedal footswitches, for mounting to Equipment Rails UG 608 and 29003 GS, for use with Footswitches **20** 0143 30, **20** 0154 30, **20** 0164 30, **20** 0166 30, **20** 0168 31, **20** 0178 30 and **20** 0178 31 **Footswitch Holder,** for one-pedal footswitch, for mounting to Equipment Rails UG 608 and 29003 GS, for use with Footswitches **20** 0141 30, **20** 0142 30 and **20** 0178 32
	29005 AK	**Wire Tray,** for accessories, for mounting to equipment rails, dimensions (w x h x d): 300 x 100 x 200, for use with equipment carts

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COMPONENTS / SPARE PARTS

Introduction

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

Hotline

Queries concerning products, exchange, maintenance and cleaning can be addressed to Technical Support: +49 (0)7461/708-980, from Monday to Thursday from 7 – 18 h and Friday from 7 – 17 h.

Example:

Components / Spare Parts		Catalog Page
20133101-1	**Cold Light Fountain XENON 300 SCB**	143
400 A	**Mains Cord,** length 300 cm	
20090170	**SCB Connecting Cable,** length 100 cm	



Spare Parts



20133028
XENON Spare Lamp,
300 W, 15 V



20133027
XENON Spare Lamp Module, 300 W, 15 V



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Components/spare parts with corresponding order number of the instrument and reference to catalog page

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IMAGE1 S™ H3-LINK SP 4
IMAGE1 S™ X-LINK SP 4
IMAGE1 S D3-LINK® SP 4

MOBILE COMBISOLUTIONS

TIPCAM®1 S 3D ORL/LAP SP 5
VITOM® 3D SP 5
VITOM® – VERSACRANE™ Holding System, 32" 3D Monitor SP 6
VITOM® – VITOM® Telescopes, Rotation Socket, Articulated Stands SP 7
TELE PACK X GI, TELE PACK X LED, Stroboscopy Kit, Microphone Set SP 8

OFFICE PLATFORM

C-HUB® II Camera Control Unit SP 9
SMART SCOPE, ZeroWire Video Transmission Set SP 10

COLD LIGHT FOUNTAINS AND LIGHT CABLES

Cold Light Fountains SP 11-SP 13
Fiber Optic and Fluid Light Cables SP 14

DATA MANAGEMENT, DOCUMENTATION AND IMAGE DISTRIBUTION

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AIDA® SP 15

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IV Poles, Video Endoscope Holders SP 18
TROLL-E Mobile Stand, SHORT-E HF Cart SP 19
Pump Cart, STOR-E® Transport Cart SP 20

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IMAGE1 S CONNECT®, IMAGE1 S™ H3-LINK, IMAGE1 S™ X-LINK, IMAGE1 S D3-LINK®

KARL STORZ — ENDOSKOPE

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TC 200EN*	**IMAGE1 S CONNECT®**	40, 62
400 A	**Mains Cord,** length 300 cm	
20040089	**DVI-D Connecting Cable,** length 300 cm	
20090170	**SCB Connecting Cable,** length 100 cm	
20040282	**USB Flash Drive,** 32 GB	
20040240US	**USB Silicone Keyboard,** with touchpad, US	



Components / Spare Parts		Catalog Page
TC 201EN*	**IMAGE1 S CONNECT® II**	40
400 A	**Mains Cord,** length 300 cm	
20040089	**DVI-D Connecting Cable,** length 300 cm	
TC 003	**DisplayPort Cable,** length 300 cm	
TC 007	**3G-SDI Cable,** length 300 cm	
20090170	**SCB Connecting Cable,** length 100 cm	
20040282	**USB Flash Drive,** 32 GB	
20040240US	**USB Silicone Keyboard,** with touchpad, US	



Components / Spare Parts		Catalog Page
TC 300	**IMAGE1 S™ H3-LINK**	42
400 A	**Mains Cord,** length 300 cm	
TC 011	**Link Cable,** length 20 cm	



Components / Spare Parts		Catalog Page
TC 301	**IMAGE1 S™ X-LINK**	42
400 A	**Mains Cord,** length 300 cm	
TC 011	**Link Cable,** length 20 cm	



Components / Spare Parts		Catalog Page
TC 302	**IMAGE1 S D3-LINK®**	42, 62
400 A	**Mains Cord,** length 300 cm	
TC 011	**Link Cable,** length 20 cm	



Components / Spare Parts		Catalog Page
TC 304	**IMAGE1 S™ 4U-LINK**	42
400 A	**Mains Cord,** length 300 cm	
TC 011	**Link Cable,** length 20 cm	



*** Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

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TIPCAM®1 S 3D ORL/LAP, VITOM® 3D

Components / Spare Parts		Catalog Page
26605 AA	**TIPCAM®1 S 3D LAP**	51, 63
26605 BA	**TIPCAM®1 S 3D LAP**	51, 63
7240 AA3D	**TIPCAM®1 S 3D ORL**	52, 64
7240 BA3D	**TIPCAM®1 S 3D ORL**	52, 64
7240 FA3D	**TIPCAM®1 S 3D ORL**	52, 64

Spare Parts

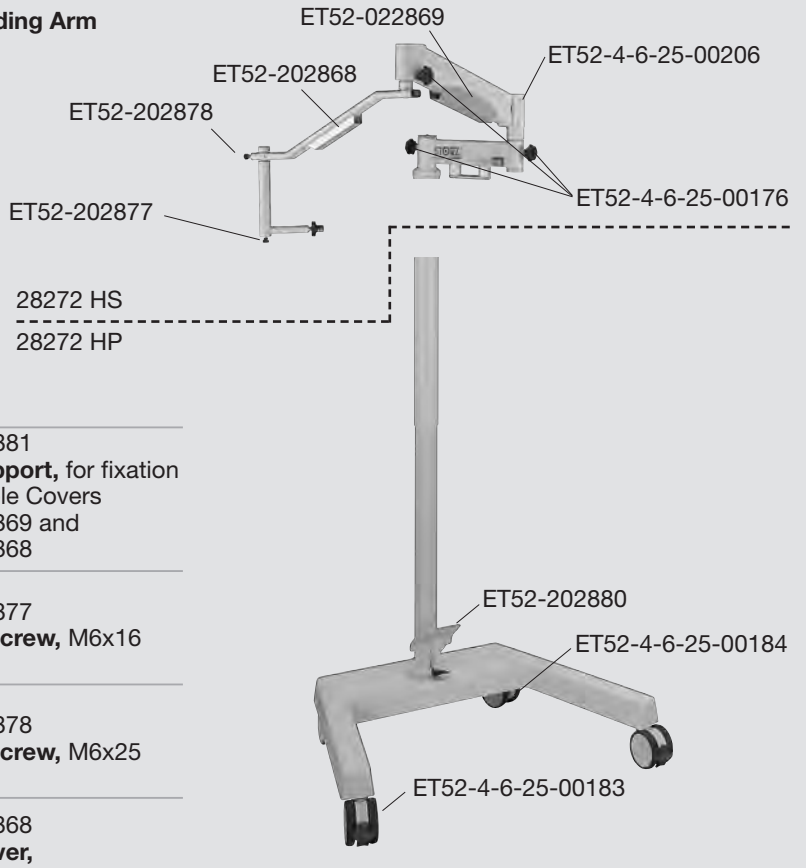


495-3D
Light Adaptor

Components / Spare Parts		Catalog Page
TH 200	**VITOM® 3D**	53, 65, 112

10-18

Components / Spare Parts		Catalog Page
28272 HSP	**VERSACRANE™ Holding Arm**	58, 69, 113, 180
28272 HS	**VERSACRANE™ Holding Arm**	
28272 HP	**Mobile Stand**	



Spare Parts for 28272 HS

	ET52-202881 **Cable Support,** for fixation under Cable Covers ET52-022869 and ET52-202868
	ET52-202877 **Knurled Screw,** M6x16
	ET52-202878 **Knurled Screw,** M6x25
	ET52-202868 **Cable Cover,** 150 mm
	ET52-022869 **Cable Cover,** 250 mm
	ET52-4-6-25-00176 **Handwheel Brake,** M6x0.5
	ET52-4-6-25-00206 **Window Cap Lift 20**

Spare Parts for 28272 HP

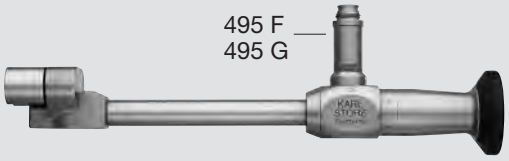
ET52-202880 **Footswitch Protection Cap**
ET52-4-6-25-00183 **Guide Roll, braked**
ET52-4-6-25-00184 **Guide Roll, unbraked**

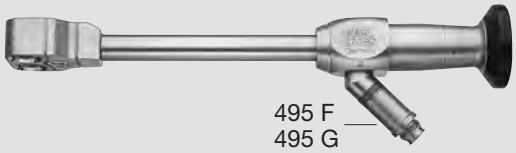
Components / Spare Parts		Catalog Page
TM 330	**32" 3D Monitor**	67, 115, 134



10-18

Components / Spare Parts		Catalog Page
20916025 AA	**VITOM® Telescope 0° with integrated Illuminator**	101
20916025 DA	**VITOM® Telescope 90° with integrated Illuminator**	101
20916025 AGA	**VITOM® II NIR/ICG Telescope 0°, with integrated Illuminator**	105
20916025 AIA	**VITOM® II PDD Telescope 0°, with integrated Illuminator**	107





Spare Parts

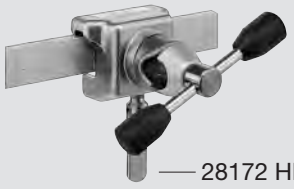


495 F
Receptacle,
diameter 9 mm,
for Wolf fiber
optic light cable



495 G
Screw Base, for
KARL STORZ fiber optic
light cables and Olympus
Corporation

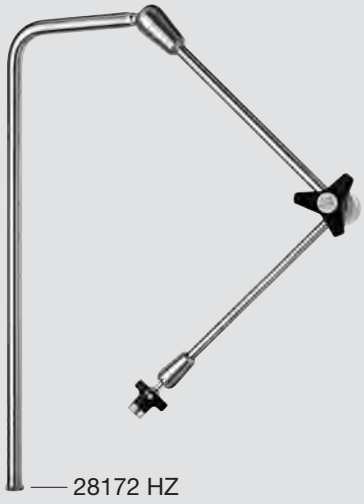
Components / Spare Parts		Catalog Page
28172 HR	**Rotation Socket,** to clamp to the operating table	55, 68, 115, 176



Spare Part

28172 HRS
Butterfly Nut, to clamp
Socket 28172 HR to the
operating table, one
already mounted on
Socket 28172 HR

Components / Spare Parts		Catalog Page
28272 HC	**Articulated Stand**	176
28272 HB	**Articulated Stand**	176



Spare Part



28172 HZ
Set Screw,
for articulated stands

TELE PACK X GI, TELE PACK X LED, Stroboscopy Kit, Microphone Set

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog Page

TP 200EN* **TELE PACK X GI** — 78



TP 200	**TELE PACK X GI**
13992 BS	**Water Bottle**
13991 SW	**Irrigation Adaptor,** for water bottle
20040240US	**USB Silicone Keyboard,** with touchpad, US-English character set
20040282	**USB Flash Drive,** 32 GB
TP 001	**SD Card,** 32 GB
400 F	**Mains Cord,** length 300 cm

Spare Parts



20045030
Adaptor



20045031
Light Adaptor

Components / Spare Parts — Catalog Page

TP 100EN* **TELE PACK X LED** — 76



20040240US	**USB Silicone Keyboard,** with touchpad, US-English character set
20040282	**USB Flash Drive,** 32 GB
TP 001	**SD Card,** 32 GB
400 F	**Mains Cord,** length 300 cm

Spare Parts



20045030
Adaptor



20045031
Light Adaptor

Components / Spare Parts — Catalog Page

40160040 **Stroboscopy Kit** — 81





40160033	**Footswitch TELE PACK X LED**
40160031	**Microphone Set**

Components / Spare Parts — Catalog Page

40160031 **Microphone Set** — 81



20140030	**Microphone Fitting**
20140030 MH	**Microphone Holder**
20140030 T	**Connector for Microphone Membrane**

***Also available in the following languages:** DE, ES, FR, IT, PT, RU, SE

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C-HUB® II Camera Control Unit

Components / Spare Parts		Catalog Page
20290301	**C-HUB® II Camera Control Unit**	88
20290320	**C-HUB® II**	
20290120-PS	**Power Supply,** incl. primary plugs	
547 S	**S-Video (Y/C) Connecting Cable,** length 180 cm	
20200073	**USB Connecting Cable,** length 180 cm	
20040445-V02	**KARL STORZ Video Editor**	



Spare Parts



20290120-PS
Power Supply, C-HUB®



ET27-30-0003207
Primary Plug USA/JP



ET27-30-0003148
Primary Plug EU



ET27-30-0004357
Primary Plug AUS



ET27-30-0003206
Primary Plug UK

10-18

SMART SCOPE,
ZeroWire Video Transmission Set

KARL STORZ — ENDOSKOPE

Components / Spare Parts		Catalog Page
20288001	**SMART SCOPE**	94
20288100-S6	**Galaxy S6 Holder**	94
20288100-S7	**Galaxy S7 Holder**	94
20288100-S8	**Galaxy S8 Holder**	94
20288100-I6	**iPhone 6/6s Holder**	94
20288100-I7	**iPhone 7/8 Holder**	94

Components / Spare Parts		Catalog Page
TZ 100	**ZeroWire G2 Transmission Set**	137
TZ 101	**ZeroWire G2 Receiver**	137
TZ 102	**ZeroWire G2 Transmitter**	137
9826 NB-ZW	**ZeroWire Y-Cable,** for looping into the monitor power supply	137
TZ 002	**ZeroWire G2 Y-Cable 19" – 26"**	138
TZ 003	**ZeroWire G2 Y-Cable 26" – 32"**	138
TZ 001	**ZeroWire G2 Power Supply**	137



10-18

Cold Light Fountains

KARL STORZ — ENDOSKOPE

Components / Spare Parts — Catalog Page

TL 300 **Cold Light Fountain POWER LED 300 SCB** 141

400 A **Mains Cord,** length 300 cm



Components / Spare Parts — Catalog Page

20161401-1 **Cold Light Fountain Power LED 175 SCB** 142

400 A **Mains Cord,** length 300 cm

20090170 **SCB Connecting Cable,** length 100 cm



Spare Parts



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Components / Spare Parts — Catalog Page

20161201 **Cold Light Fountain LED NOVA 150** 90, 142

400 A **Mains Cord,** length 300 cm



Components / Spare Parts — Catalog Page

20133101-1 **Cold Light Fountain XENON 300 SCB** 143

400 A **Mains Cord,** length 300 cm

20090170 **SCB Connecting Cable,** length 100 cm



Spare Parts



20133028
XENON Spare Lamp,
300 W, 15 V



20133027
XENON Spare Lamp Module, 300 W, 15 V



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

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Cold Light Fountains

Components / Spare Parts		Catalog Page
20134001	**Cold Light Fountain XENON NOVA® 300**	144
400 A	**Mains Cord,** length 300 cm	



Spare Part



20133028
XENON Spare Lamp,
300 W, 15 V



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Components / Spare Parts		Catalog Page
20131501	**Cold Light Fountain XENON NOVA® 175**	144
400 A	**Mains Cord,** length 300 cm	



Spare Part



20132026
XENON Spare Lamp,
175 W, 15 V



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Components / Spare Parts		Catalog Page
TL100 S1	**Cold Light Fountain CO_2MBI® LED SCB**	145
TL 100	**Cold Light Fountain CO_2MBI® LED SCB**	
TL 001	**Irrigation Bottle Holder**	
TL 002	**Holding Ring,** for water bottles	
13992 BS	**Water Bottle**	
13991 SW	**Irrigation Adaptor,** for water bottles	
20090170	**SCB Connecting Cable,** length 100 cm	
20400030	**Universal Wrench**	



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Components / Spare Parts		Catalog Page
20133701-1	**Cold Light Fountain D-LIGHT P SCB**	148
400 A	**Mains Cord,** length 300 cm	
20090170	**SCB Connecting Cable,** length 100 cm	
20014130	**One-Pedal Footswitch,** digital, one-stage	
96240726	**Democard Fluorescence Imaging**	



Spare Parts



20133028
XENON Spare Lamp,
300 W, 15 V



20133725
XENON Spare Lamp Module, 300 W, 15 V



2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Components / Spare Parts		Catalog Page
20133601-133	**Cold Light Fountain D-LIGHT C/AF SCB**	150
400 A	**Mains Cord,** length 300 cm	
20090170	**SCB Connecting Cable,** length 100 cm	
20010130	**One-Pedal Footswitch,** digital, one-stage	



Spare Parts



20133028
XENON Spare Lamp,
300 W, 15 V



20133625
XENON Spare Lamp Module, 300 W, 15 V



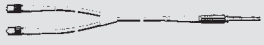
2108191
Light Cable Adaptor,
HALOGEN, 150/250 W

Fiber Optic and Fluid Light Cables

Components / Spare Parts		Catalog Page
With safety lock		
495 NCSC	**Fiber Optic Light Cable**	57, 69, 105, 154
Without safety lock		
495 UD	**Fiber Optic Light Cable**	154
495 NW	**Fiber Optic Light Cable**	155
495 FS	**Fluid Light Cable**	155
495 VIT	**Fiber Optic Light Cable**	57, 69, 114, 154



495 NCSC



495 UD



495 NW



495 FS

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Components / Spare Parts		Catalog Page
WD 350-EN	**AIDA® with SMARTSCREEN®**	161
WD 300	**AIDA®**	
WM 200	**OR1™ SMARTSCREEN®**	
20040240US	**USB Silicone Keyboard,** with touchpad, US	



Components / Spare Parts		Catalog Page
WD 300-EN	**AIDA®**	163
WD 300	**AIDA®**	
20040240US	**USB Silicone Keyboard,** with touchpad, US	



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Equipment Carts

Components / Spare Parts		Catalog Page
UG 220	**Equipment Cart,** wide	183
UG 011	**Base Module,** equipment cart, wide	
UG 021	**Cover,** equipment cart, wide	
UG 051	**Beam Package,** equipment cart, high	
UG 604	**Shelf,** wide	
UG 602	**Drawer Unit with Lock,** wide	
UG 608	**Equipment Rail,** long	
UG 612	**Camera Holder**	
UG 700	**Mains Cord,** length 100 cm	



Components / Spare Parts		Catalog Page
UG 120	**Equipment Cart,** narrow	183
UG 010	**Base Module,** equipment cart, narrow	
UG 020	**Cover,** equipment cart, narrow	
UG 051	**Beam Package,** equipment cart, high	
UG 603	**Shelf,** narrow	
UG 601	**Drawer Unit with Lock,** narrow	
UG 608	**Equipment Rail,** long	
UG 612	**Camera Holder**	
UG 700	**Mains Cord,** length 100 cm	



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Equipment Carts

Components / Spare Parts		Catalog Page
UG 110	**Equipment Cart,** narrow	184
UG 010	**Base Module,** equipment cart, narrow	
UG 020	**Cover,** equipment cart, narrow	
UG 041	**Beam Package,** equipment cart, small	
UG 603	**Shelf,** narrow	
UG 601	**Drawer Unit with Lock,** narrow	
UG 608	**Equipment Rail,** long	
UG 700	**Mains Cord,** length 100 cm	



Components / Spare Parts		Catalog Page
UG 210	**Equipment Cart,** wide	184
UG 011	**Base Module,** equipment cart, wide	
UG 021	**Cover,** equipment cart, wide	
UG 041	**Beam Package,** equipment cart, small	
UG 604	**Shelf,** wide	
UG 602	**Drawer Unit with Lock,** wide	
UG 608	**Equipment Rail,** long	
UG 700	**Mains Cord,** length 100 cm	



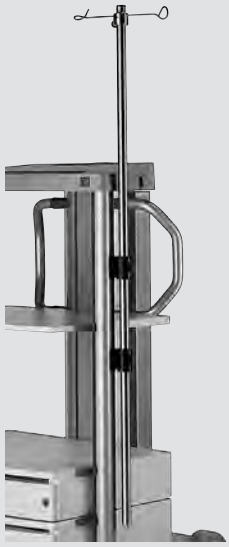
Components / Spare Parts		Catalog Page
UG 230	**Equipment Cart LC**	185
UG 012	**Base Module,** equipment cart LC	
UG 022	**Cover,** equipment cart LC	
UG 052	**Beam Package,** equipment cart LC	
UG 604	**Shelf,** wide	
UG 602	**Drawer Unit with Lock,** wide	
UG 622	**Camera Holder**	
UG 700	**Mains Cord,** length 100 cm	



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IV Poles, Video Endoscope Holders

Components / Spare Parts		Catalog Page
UG 625	**IV Pole**	190
UG 616	**IV Pole**	
UG 623	**Multifunctional Holder**	
UG 626	**IV Pole**	
UG 617	**IV Pole,** height-adjustable	
UG 623	**Multifunctional Holder**	



Components / Spare Parts		Catalog Page
13991 ET	**Video Endoscope Holder**	190
ET03-1540402	**Drip Container**	
13991 DET	**Double Video Endoscope Holder**	
ET03-1540402	**Drip Container**	



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TROLL-E Mobile Stand, SHORT-E HF Cart

Components / Spare Parts		Catalog Page
20020081	**TROLL-E Mobile Stand**	192
20020060	**Subrack,** for mobile stand	
20020062	**Beam Module**	
20020047	**Shelf**	



Components / Spare Parts		Catalog Page
20020087	**SHORT-E HF Cart**	192
20020060	**Subrack,** for mobile stands	
20020069	**HF Shelf**	



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Pump Cart,
STOR-E® Transport Cart

Components / Spare Parts		Catalog Page
20020058	**Pump Cart**	193
20020043	**Subrack,** for mobile stand	
20020051	**Accessory Set,** for mobile stand	
29005 PH	**Pump Holder**	
030971-01	**VACUSAFE Container Holder**	



Components / Spare Parts		Catalog Page
20020059	**STOR-E® Transport Cart,** for POINT SETTER	193
20020053	**Mobile Stand,** for POINT SETTER	
20020050	**Attachment Set,** for POINT SETTER	
29005 AK	**Wire Basket**	

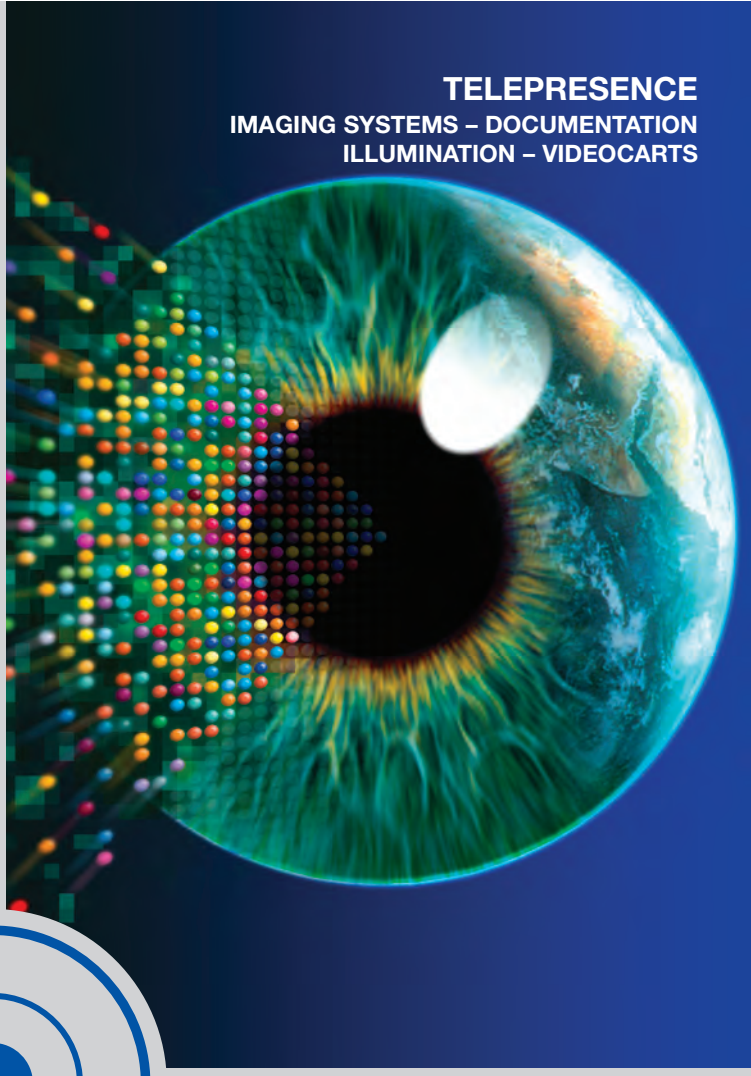


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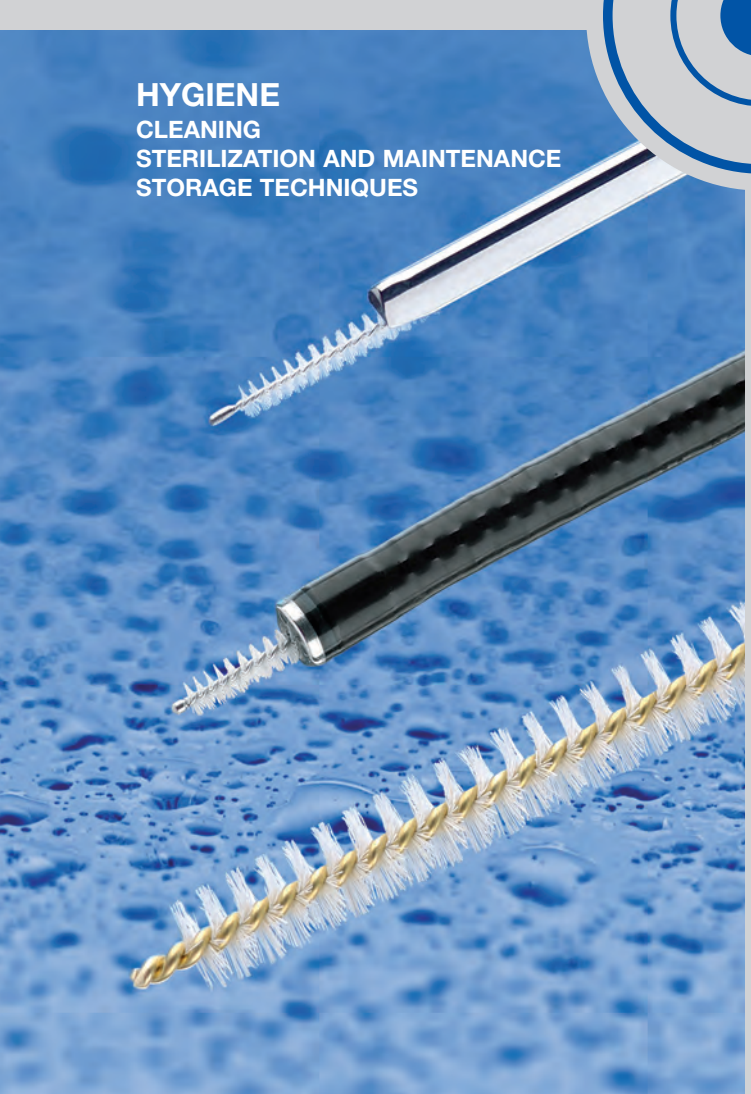
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ERGONOMICS, SAFETY AND EFFICIENCY IN THE OR



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IMAGING SYSTEMS – DOCUMENTATION
ILLUMINATION – VIDEOCARTS



HYGIENE
CLEANING
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STORAGE TECHNIQUES



ENDOPROTECT1
KARL STORZ SERVICE PROGRAM



KARL STORZ — ENDOSKOPE

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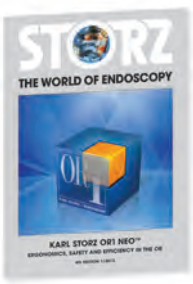
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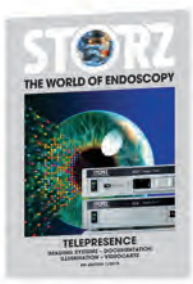
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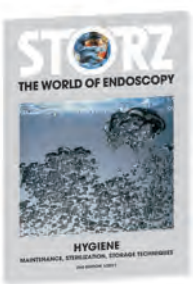
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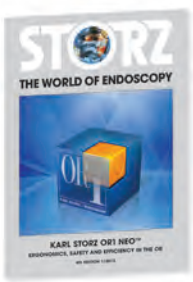
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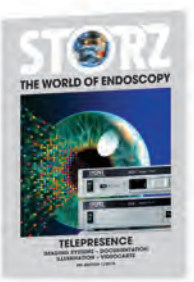
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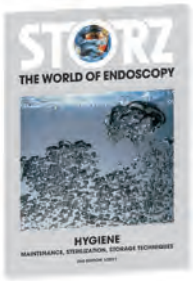
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❑ Data management and documentation
❑ Telemedicine



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❑ Camera systems
❑ Data management and documentation
❑ Monitors and video printers
❑ Light sources
❑ Equipment carts



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