

TONTARRA

ENDOSCOPY



ENDOOR - TOWER

ABOUT US

For more than 50 years “made by TONTARRA, Germany” is a synonym for state-of-the-art surgical and endoscopic instruments and equipment.

This success and the international recognition of the skillfulness in surgical and endoscopic instrument making of Tontarra Medizintechnik GmbH are based on our commitment to medical innovation, mastery in manufacturing, and a strong focus on our continuing tradition of excellence.

The confidence in our surgical and endoscopic lines as expressed by our international customers, distribution- and OEM-partners are a driving force to face and meet new challenges.

TONTARRA



Indispensable ‘tools’ for maturing new ideas into high-precision surgical instruments of highest precision include our state-of-the-art manufacturing facility and production processes, and especially the comprehensive technical know-how, ingenuity and strong commitment of our entire team.

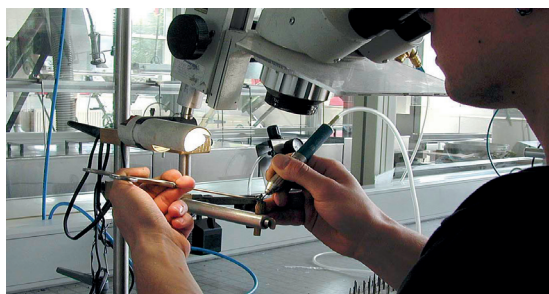


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EndoorCam 10

Camera Models

EndoorCam 10 Full HD camera:

Maximum compatibility of a high performance camera system to existing infrastructures.



An endoscopic camera controller for best in class image quality.

Edge enhancement, automatic gain control (AGC) and dynamic contrast function guarantee a best in class performance.

Time saving **camera presets** for Laparoscopy, Arthroscopy, Gynecology, Urology, ENT, Neuroendoscopy and Fiberscope complete the user-friendliness.

Two different camera heads for use with DIN ocular endoscopes:

- Camera Head Full HD Zoom
- Camera Head Full HD Fix 90° Angled

Enabling use in different medical departments and application areas.



EndoorCam 10

Art.No. SCHO/95-3930 *

Controller Full HD USB image capture

- ▶ Full HD USB image capture
- ▶ Multi-connectivity
- ▶ Videoalgorithms: selective color enhancement, smoke reduction, grid removal

TECHNICAL DATA	
Art.No. SCHO/95-3930	Controller Full HD USB image capture
Operation control panel	On-Off, menu, white balance, photo
Video outputs	High definition: 2 x DVI (1080 p), 2 x HD-SDI (1080i)
Remote outputs	2 x 3.5 mm phone jack connectors (to connect recording/printer devices)
Remote inputs	2 x 3.5 mm phone jack connectors (to connect a foot control switch)
Connectivity	SCHÖLLY MIS-Bus interface
Dimensions/Weight	295 x 100 x 355 mm (W x H x D) / 4.39 kg
SYSTEM	
Standard compliance	IEC 60601-1 2 nd and 3 rd
Directive compliance	CE-mark
Power connection	100 - 240 V AC, 50/60 Hz
Power consumption	0.8 - 0.4 A

* Original Manufacturer Product of SCHÖLLY

EndoorCam 20

Camera Models

EndoorCam 20 Native Full HD camera:

An endoscopic camera controller par excellence with integrated USB port for full HD image and video capturing.



Recording made easy via controller button or via illuminated camera head button.

First class **images & videos** based on state-of-the-art technologies.

Equipped with a **Native Full HD resolution** for capturing and storing images and video recordings via USB in Full HD.

Different **video algorithms** contribute to the excellent picture quality: Color shift 1+2, selective color enhancement, smoke reduction, grid removal and picture out of picture mode for the video algorithms.

In combination with the **EndoorLight 300 LED light source**, the patented **automatic light control** offers an additional advantage for user and patient.

For **maximum image quality** the **3CMOS** Camera Head is recommended.



EndoorCam 20

Art.No. SCHO/95-3970 *

Controller Full HD

USB image / video capture / advanced image features

- ▶ Full HD USB image / video capture
- ▶ Multi-connectivity
- ▶ Videoalgorithms: color shift 1 + 2, selective color enhancement, smoke reduction, grid removal
- ▶ Picture out of picture modus at use of video algorithms
- ▶ Automatic light control in combination with EndoorLight 300 LED light source
- ▶ Compatible with all Endoor HD Camera Heads

TECHNICAL DATA	
Art.No. SCHO/95-3970	Controller Full HD USB image / video capture
Operation control panel	On-Off, menu, white balance, photo, video
Video outputs	High definition: 2 x DVI (1080 p), 2 x 3G-SDI (1080i)
Interfaces Remote outputs	2 x 3.5 mm phone jack connectors (to connect recording/printer devices)
Interfaces Remote inputs	2 x 3.5 mm phone jack connectors (to connect a foot control switch)
Interfaces USB Keyboard / Drive	2 x USB
Connectivity	SCHÖLLY MIS-Bus interface
Dimensions/Weight	295 x 100 x 355 mm (W x H x D) / 5.7 kg
SYSTEM	
Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Supply voltage	100 - 240 V-, 50/60 Hz
Current consumption	0.8 - 0.4 A
Protection class as per IEC 60601-1	Protection class I
Degree of protection	IP 21
Classification as per Directive 93/42/EEC	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class B

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EndoorCam Features

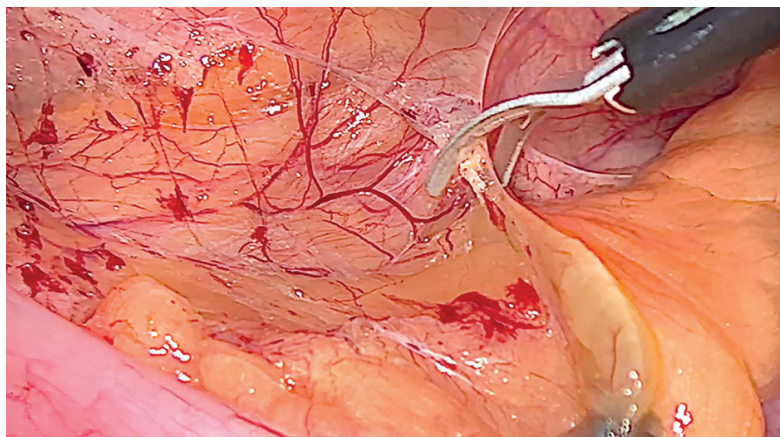
Camera features

EndoorCam – NATIVE FULL HD RESOLUTION

No compromise in image quality

Latest CMOS chip technology integrated in the **EndoorCam** native full HD endoscopy camera systems provides a brilliant image quality with highest sensitivity. Edge enhancement, dynamic contrast function and various video algorithms lead to a vivid, crystal clear image.

Vessels and tissue structures can be highlighted, the view during HF or laser applications can be improved or the honeycomb structure of image bundle endoscopes can be reduced. All these details and technologies lead to this best-in-class camera solution.



► Video Algorithm Color Shift 1 + 2

The range of advanced imaging algorithms is completed with „Color Shift“ modes. Spectral colors are shifted and exchanged. It can be used to enhance vessels and tissue structures.

► Picture out of picture mode (POP)

User can display the image improved by video algorithm either in fullscreen or use it side by side, with the original image, both on the same monitor in PoP-mode.

► Automatic Light Control

Perfect integration of LED light source and camera through MIS-Bus. The light source can be switched on and off and regulated in brightness through the camera controller and camera head buttons. The camera can even control the luminance of the light source fully automatic.

► OR-Integration Module

As an option the camera can be controlled by your integrated OR system. The whole camera menu can be accessed by your OR control system. Additionally we offer solutions for still image archive and video streaming through Ethernet hospital network to a KIS/PACS system

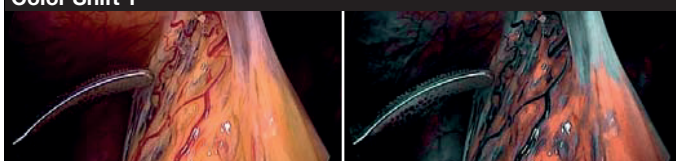
EndoorCam Features

Camera features

EndoorCam – NATIVE FULL HD RESOLUTION



Color Shift 1



Selective Color Enhancement (SCE)



Smoke reduction



System overview	EndoorCam 10 SCHO/95-3930	EndoorCam 20 SCHO/95-3970
Video algorithms		
▶ Selective color enhancement	✓	✓
▶ Smoke reduction	✓	✓
▶ Grid removal	✓	✓
▶ Clear view	optional	optional
▶ Color Shift 1 + 2	-	✓
Picture out of picture mode (PoP) for all above mentioned algorithms	-	✓
Integrated galvanic insulation for use with chip-in-tip endoscopes	-	✓
Compatibility with future camera heads e.g. autoclavable heads	✓	✓
Full HD USB image capture	✓	✓
Full HD USB video capture	-	✓
Automatic light control with NEW LED light source	-	✓
OR integration module	-	optional
Camera Head Full HD Zoom	✓	✓
Camera Head Full HD Fix 90° Angled	✓	✓
Camera Head Full HD 3CMOS Zoom	-	✓

▶ Color Shift 1

Enhances vessels and tissue structures. Spectral colors are shifted and exchanged; with a stronger effect.

▶ Color Shift 2

Enhances vessels and tissue structures. Spectral colors are shifted and exchanged; with a weaker effect.

▶ Selective Color Enhancement

Enhances vessels and tissue structures with higher color contrast. The original color impression remains.

▶ Smoke reduction

For a clear view during dissection technologies that create smoke (e.g. HF).

▶ Grid removal

Reduces the honeycomb structure of image bundle endoscopes.

▶ Clear view

For a clear view during operations in hazy liquids (e.g. Arthroscopy)

EndoorCam

Camera Heads

EndoorCam Camera Head Full HD Zoom: For a wide variety of endoscopic applications

Lightweight & ergonomic

Three individually programmable and illuminated keys.

Manually adjustable focal length of 14.25 - 28 mm.

Illuminated control buttons for easy identification in dark OR.

Designed to ensure that the full HD image remains sharp when zooming.

All-purpose 2 x optical zoom offers full screen laparoscopic images.

TECHNICAL DATA	
Art.No. SCHO/95-3901	Camera Head Full HD Zoom
Image sensor	1/3" CMOS, progressive scan
Sensor resolution	1920 x 1080, 50/60p
Function keys	3 individ. programmable & illuminated keys
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Waterproof connection plug	Yes
Lockable endoscope connection	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	210 g
Control unit compatibility	EndoorCam 10 & EndoorCam 20



Camera Head Full HD Zoom

Art.No. SCHO/95-3901 *

Designed for a variety of endoscopic applications

- ▶ Full HD sensor resolution
- ▶ Illuminated control buttons
- ▶ 2x optical zoom
- ▶ 3x digital zoom
- ▶ Lockable endoscope connection
- ▶ Time saving and useful presets
- ▶ All rigid, flexible or semi-flexible endoscopes with standard ocular can be connected

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EndoorCam

Camera Heads

EndoorCam Camera Head Full HD Fix 90° Angled:
Especially useful for urologic and gynecologic procedures



One focus ring with a focal length of 14.25 mm.

Illuminated control buttons for easy identification in dark OR.

Endocoupler has a 90° angle so that the camera cable does not hinder the surgeon during the treatment.

Self-aligning to keep the horizon fixed while turning the endoscope.

The rotation can be stopped using the pendulum locking lever.

Low weight and long camera cable enables a long procedure time with maximal freedom of movement.



**Camera Head Full HD
Fix 90° Angled**

Art.No. SCHO/95-3903 *

TECHNICAL DATA	
Art.No. SCHO/95-3903	Camera Head Full HD Fix 90° Angled
Image sensor	1/3" CMOS, progressive scan
Sensor resolution	1920 x 1080, 50/60p
Function keys	3 individ. programmable & illuminated keys
Endocoupler	For standard ocular, freely rotating & lockable
Focal length	f = 14.25 mm
Waterproof connection plug	Yes
Lockable endoscope connection	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	190 g
Control unit compatibility	EndoorCam 10 & EndoorCam 20

Designed for urology, gynecology and ENT surgeries

- ▶ Full HD sensor resolution
- ▶ Illuminated control buttons
- ▶ Lightweight and slim design
- ▶ 3x digital zoom
- ▶ Lockable endoscope connection
- ▶ Time saving and useful presets
- ▶ All rigid, flexible or semi-flexible endoscopes with standard ocular can be connected

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EndoorCam

Camera Heads

EndoorCam Camera Head **Native** Full HD 3CMOS Zoom:

For excellent color reproduction



Exceptionally ergonomic 3CMOS head for the EndoorCam 20 camera platform.

Illuminated control buttons for easy identification in dark OR.

All-purpose 2 x **optical** zoom for full screen laparoscopic images as well as circular images of small endoscopes (e.g. arthro, uro, fiber).

Lockable endoscope connection for safe use.

Compatible for STERRAD sterilization.



Camera Head **Full HD 3CMOS Zoom**

Art.No. SCHO/95-3906 *

TECHNICAL DATA	
Art.No. SCHO/95-3906	Camera Head Full HD 3CMOS Zoom
Image sensor	3 x 1/3" CMOS, progressive scan
Sensor resolution	3 x 1920 x 1080, 50 / 60p
Function keys	3 individ. programmable & illuminated keys
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Waterproof connection plug	Yes
Lockable endoscope connection	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	300 g
Applied part as per IEC 60601-1	Type CF defibrillation-proof
Control unit compatibility	EndoorCam 20

Outstanding performance

- ▶ 3CMOS sensor, native Full HD
- ▶ Best color reproduction due to 3CMOS sensor design
- ▶ 2x optical zoom (plus 3x digital zoom)
- ▶ Unique lockable endoscope connection
- ▶ STERRAD compatible
- ▶ Time saving and useful presets
- ▶ All rigid, flexible or semi-flexible endoscopes with standard ocular can be connected
- ▶ Illuminated control buttons

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EndoorLight 300

Light Source

EndoorLight 300 luminous intensity LED light source:
Unique high Color Rendering Index (CRI): Ra > 90



Universal LED light source for all applications comparable to 300 W Xenon.

Patented fully automatic light control, permitting reliable and efficient use in combination with the **EndoorCam 20** camera.

Quick adjustment by the user via camera control unit or camera head button.

Very silent during use.

The **multi-light guide adapter** allows the use of light guides from Storz, Wolf and Olympus.

Bus system for easy connection to camera.



EndoorLight 300 LED

Art.No. SCHO/05-0760led *

TECHNICAL DATA	
Art.No. SCHO/05-0760led	EndoorLight 300 LED
Illumination type	High power white light LED
Color Rendering Index	CRI Ra > 90
Color temperature	5,600 K
Luminous flux	1,420 lm
Lifetime of the illuminant	> 30.000 h
Operation control panel	LCD Display with illuminated buttons
Standard compliance	IEC 60601-1 (3.1 Edition)
Electromagnetic compatibility	IEC/EN 60601-1-2 (3 rd and 4 th)
Directive compliance	CE-mark
Dimensions (W x H x D)	295 x 130 x 355 mm
Weight	8 kg
Supply voltage	100 - 240 V~, 50/60 Hz
Power consumption	1.6 - 0.6 A
Protection class acc. to IEC 60601-1	Protection class I
Degree of protection	IP21
Applied part as per IEC 60601-1	Type CF defibrillation-proof
Classification acc. to Directive 93/42/EEC	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class B

Light Source

- ▶ High color rendering index (CRI): RA > 90
- ▶ Low noise level
- ▶ Multi-light-guide adapter
- ▶ Automatic light control in combination with EndoorCam 20
- ▶ Meets high requirements for CF with defibrillators

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Multi Indication Pump

Pumps

MULTI-INDICATION PUMP –

One pump, four indications



The **Multi-Indication Pump** facilitates everyday routine hospital activities.

The ingenious device combines a streamlined design, easy operation, and maximum safety.

Key parameters are seen at a glance, allowing for quick and correct actions by personnel.

Transponders for each of the applications have to be ordered additionally (see page 14 / Accessories).



Multi-Indication Pump

Art.No. WOMO/PM304-M01 *

TECHNICAL DATA	
Art.No. WOMO/PM304-M01	Multi-Indication Pump
Pressure range	Laparoscopy: not adjustable Arthroscopy: 5 - 150 mmHG Hysteroscopy: 15 - 150 mmHG Urology: 15 - 150 mmHG
Flow range	Laparoscopy: 1.0 - 1.8 l/min Arthroscopy: 0.1 - 1.8 l/min Hysteroscopy: 50 - 500 ml/min Urology: 50 - 500 ml/min
Suction capacity	Max. 2 l/min (depending on outflow cannula)
Power supply	100 - 240 V~
Frequency	50 - 60 Hz
Power consumption	80 VA
Current consumption	100 V: 0.8 A 240 V: 0.3 A
Classifications	Protection Class I, Type BF, IP 41
Dimensions (W x H x D)	381 x 149 x 379 mm
Weight	6.3 kg

Multi Indication:

- ▶ Laparoscopy
- ▶ Arthroscopy
- ▶ Hysteroscopy
- ▶ Urology

* Original Manufacturer Product of WOM

Lap Pump

Pumps

LAP-PUMP – One device, two functions:
suction & irrigation

With a built-in vacuum pump, the **LAP-Pump** combines irrigation and suction functionality in one device – which makes it the device of choice for minimally invasive surgeries.

A suction and irrigation volume of 3 l/min and a pressure performance of up to 450 mmHg when irrigating, creates clear view during the operation.

The LAP-Pump reacts to our RFID protected tube sets and ensures proper use. If used improperly, the pump automatically locks and irrigation is not possible.



Lap-Pump

Art.No. WOMO/PP120-M01 *

TECHNICAL DATA	
ART.No. WOMO/PP120-M01	Lap-Pump
Mains voltage range	AC 100 - 240 V~
Supply frequency range	50 / 60 Hz
Protection class	IP21
Classification acc.	Ila
Max. sound level	< 80 dB (a)
Max. negative suction pressure	- 60 kPA
Max. pump pressure	450 mmHg
Max. irrigation performance	3 l/min
Accuracy flow	± 10 %
Dimensions (W x H x D)	380 x 148 x 388 mm
Weight	6.0 kg

One device, two functions, many advantages

- ▶ Simple set up and operation
- ▶ Easy to load tube set
- ▶ Vacuum suction included

* Original Manufacturer Product of WOM

Accessories

Pumps

ACCESSORIES –

For Multi-Indication Pump & Lap Pump



ACCESSORIES *	FOR MULTI-INDICATION PUMP
WOMO/2205334	Transponder, Indication LAP
WOMO/2205331	Transponder, Indication ARTHRO
WOMO/2205333	Transponder, Indication HYS
WOMO/2205336	Transponder, Indication URO
WOMO/T0505-01	Tube set for Irrigation, single-use, 10 pcs./pack, all indications
WOMO/T0506-01	Tube set for Irrigation, reusable, 20 uses, 1 pc./pack, all indications
WOMO/T0502-01	Tube set for suction, single-use, 10 pcs./pack, all indications
WOMO/T0503-01	Tube set for suction, 2 connectors, single-use, 10 pcs./pack, all indications
WOMO/T0504-01	Tube set for Vacuum, incl. Filter, 30-day use, 10 pcs./pack, all indications
WOMO/Z0223-01	Differential volume scale only for WOMO/PM304-M01
WOMO/Z0540-01	Foot pedal
WOMO/Z0554-01	Bemis Container, 3 L, 2 pcs./pack, disposable
WOMO/Z0555-01	Bemis Container, 3 L, 36 pcs./pack, disposable
ACCESSORIES *	FOR MULTI-INDICATION PUMP & LAP-PUMP
WOMO/Z0101-01	Power supply cord EU
WOMO/Z0176-00	Power supply cord UK
WOMO/Z0102-01	Power supply cord US
WOMO/Z0103-01	Power supply cord CN
WOMO/Z0560-01	Power supply cord BR



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Insufflator 50 L

Insufflator

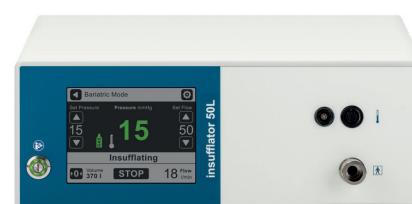
INSUFFLATOR 50L – Higher performance enhances safety in the operating room



Insufflator 50L

The Insufflator 50L adds even more safety during minimally invasive surgeries delivering the performance needed – even under extreme conditions such as obesity of the patient – to maintain a stable pneumoperitoneum. In pediatric or vessel-harvesting mode, the insufflator optimally adjusts according to the different anatomical requirements.

Another plus for all surgical procedures is its ease of use. The Insufflator has a color touchscreen for a high degree of user-friendliness.



Insufflator 50L

Art.No. WOMO/FM134-M01 *

TECHNICAL DATA	
Art.No. WOMO/FM134-M01	Insufflator 50L
Insufflation medium	Med. CO ₂
Max. gas flow	50 l/min
Pressure range	1 - 30 mmHG
Power supply	100 - 240 V~
Frequency	50 - 60 Hz
Power consumption	150 VA
Current consumption	100 V: 1.5 A 240 V: 0.63 A
Classification	Protection Class I, Type BF, IP21
Dimensions (W x H x D)	406 x 150 x 195 mm
Weight	10 kg

Multi-mode powerhouse

- ▶ Three additional modes: Bariatric, Pediatric and Vessel Harvesting
- ▶ High-end performance
- ▶ Gas heating: reusable and disposable

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Accessories

Insufflator

ACCESSORIES – For Insufflator 50L



ACCESSORIES *	FOR INSUFFLATOR 50L
WOMO/Z0452-01	Tube set for insufflation, reusable, 20 uses, ISO
WOMO/Z0280-01	Heating tube set for insufflation, reusable, 100 uses
WOMO/Z0293-01	Tube set for insufflation, single-use (20 pieces)
WOMO/Z0260-01	Heating tube set for insufflation, single-use (10 pieces)
WOMO/Z0536-01	Filter, single-use, sterile, ISO-ISO
WOMO/Z5044-01	Hose for CO2 gas bottle DIN:US, 1.5m
WOMO/Z5045-01	Hose for CO2 gas bottle ISO:US, 1.5m
WOMO/Z0499-01	Hose for CO2 gas bottle Pin:US, 1.5m
WOMO/Z5073-01	US adapter for universal gas connector
WOMO/Z5077-01	Universal gas connector CO2 angled
WOMO/Z5031-01	Hose for CO2 central gas supply DIN:NIST, 5m
WOMO/Z5033-01	Hose for CO2 central gas supply AGA:NIST, 5m
WOMO/Z5037-01	Hose for CO2 central gas supply NF:NIST, 5m
WOMO/Z5039-01	Hose for CO2 central gas supply UNI:NIST, 5m
WOMO/Z5074-01	NIST adapter for universal gas connection
WOMO/Z5075-01	DISS adapter for universal gas connection
WOMO/Z5072-01	Sinter filter for universal gas connector (5 pieces)



* Original Manufacturer Product of WOM

Digital Video Recorder

MediCap USB 300 Digital Video Recorder – Medical Imaging made easy

Records high-definition video and still images from medical video sources to internal hard drive, external USB drive, or network drive

TECHNICAL DATA	
MECO/USB300UE	MediCap USB300 Digital Video Recorder
Device Type	HD/3D2 Medical Video Recorder
Case	Rugged metal case with high-impact plastic faceplate
LCD Monitor	2 1/2", full color (for video confirmation only, not for diagnosis)
Buttons	Sealed membrane, fluid resistant
Video Inputs	DVI (RGB via adapter), HD SDI, S-Video, Composite
Video Output	DVI (RGB, VGA via adapter)
Video Formats	H.264 / MPEG4 (1080, 720, NTSC, PAL)
Video Quality	Compact, Normal, Ultra (up to 40 Mbit/s)
Image Formats	JPG, TIFF, BMP, DICOM
Networking	RJ45 10/100/1000 Ethernet
Internal Storage	Internal hard drive, 1TB
External Storage	USB flash drive, USB hard drive, network drive
USB Support	USB2.0, high speed, 1 front connector, 2 rear connectors
Printer Support	Sony UP-DR80MD medical color printer
Footswitch / Trigger	Standard 3.5mm mini jacks (one for photos, one for videos)
Mechanical	Size: 240 x 211 x 63mm / 9.5 x 8.3 x 2.5" Weight: 1.8kg / 3lb 15oz
Environmental	Storage: -40° to +85° C; Operating: -20° to +40° C
Power	AC 100-240V 50/60Hz 25W; 3-prong AC jack
Certifications	CE 93/42/EEC, IEC 60601-1:2005, ANSI/AAMI ES60601-1:2005, CAN/CSA C22.2 No.60601, 1:2008, E361228, FCC Part 15, FDA Class 1, RoHS, PSE, GOST-R, CCC
Kit Contents	MediCap USB300, USB flash drive, video and power cables, user guide



**MediCap USB300
Digital Video Recorder**
Art.No. MECO/USB300UE *

Medical Imaging made easy

- ▶ HD / 3D Medical Video Recorder
- ▶ Intuitive use
- ▶ Medical grade



**SlimCool Medical Grade
Keyboard**
Art.No. MECO/KB001WHUS *

* Original Manufacturer Product of MEDICAPTURE

Equipment Cart

EQUIPMENT CART CLASSIC –

The universal solution for all applications

Equipment Cart Classic

Limitless options for expansion and upgrade.

Flexibility is facilitated by the high load capacity of 150 kg / 330 lbs, combined with standard supply in two widths and three heights.

Numerous accessory components, such as shelves with a distributed load rating of up to 50 kg / 110 lbs, offer solutions to meet all types of requirement.

Four large twin castors also provide a high level of mobility and easy maneuverability.

The support extrusions offer easy attachment for the jointed arm and optionally supplied power columns guarantee safe cabling, accommodation of all standard socket strips and large volumes of power lines and data cables.

TECHNICAL DATA

Art.No. ITDI/KU.1 Equipment Cart Classic

CONSISTING OF:

Classic-cart basic frame Profi 40U, W500

Castor conversion kit Ø 125mm, conductive

Power columns 40U

Shelf, W500

Keyboard drawer with mousepad, D491, W500; color: waterblue

Shelf with handle, W500

Isolating transformer 1600 VA for classic-cart

Cross piece with monitor holder up to 14 kg, W500

Socket strip earthed 8-way for trafo



Equipment Cart Classic

Art.No. ITDO/KU.1 *

RM-Port Pivot Arm

Art.No. ITDO/TH.2101.991 *

* Original Manufacturer Product of ITD

Monitors

ACL OR-MD FULL HD MEDICAL DISPLAYS –

Bright, true colors make this series first choice for endoscopy

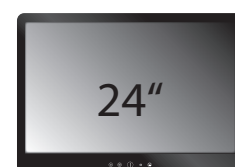


ACL OR-MD Medical Displays

ACL Medical Displays in a sealed aluminium housing with bright, true-color IPS displays and allround viewing angle are the first choice for medical image and video display in operating theatres and intensive care units. Configurable with a variety of analogue and digital interfaces, even including an integrated video crossbar.

Endoscopy, microscopy and radiology are important applications for ACL Medical Displays. But with their optional touch functionality, these monitors are also ideal for use as a second screen for various medical devices.

TECHNICAL DATA	
Laquering	Light grey RAL 7035; optional: germ-reduction nano-lacquering, other color tones in conformity with RAL
Protective pane	integrated: optional with touchscreen
Mounting	Built-in VESA-100 interfaces; optional: extensive mounting solutions available as accessories
Weight	10.5 kg (without accessories)
Power supply unit	100 - 240 V / 50 / 60 Hz / internal 80 W
USV	none; optional: external (as much as 10 minutes of power failure bridging)
Front keypad	On/Off-button, six buttons for OSD
Display	Internal TFT display, 16.7 million colors, Solution 1920x1080 pixels, Contrast 1000:1, Brightness 350 cd/m², Viewing Angle 178°/178°
Digital	DVI-I (optional: VGA D-SUB-15)
S-video	4-polig mini DIN
Composite video	RCA (PAL/NTSC)
Programming	RS232
Language selection	german; optional: english, french, italian, hispanic, polish



ACL OR-MD 24"

Art.No. ACLO/OR-MD24 *



ACL OR-MD 27"

Art.No. ACLO/OR-MD27 *



ACL OR-MD 32"

Art.No. ACLO/OR-MD32 *

* Original Manufacturer Product of ACL



· WORLD WIDE DISTRIBUTION NETWORK ·



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