

IMAGE1 SPIES™

IMAGE1 CONNECT and H3-LINK –
Your Link to Perfection



ispiies[®]



Tradition ...

KARL STORZ are continuously setting new milestones in rigid endoscopic imaging. With IMAGE 1 HUB™ HD, KARL STORZ launched the first FULL HD camera control unit for endoscopy on the market in 2007. Full HD has been the standard for camera systems in minimally invasive surgery ever since.

... creates innovation!

KARL STORZ IMAGE1 SPIES™ once again sets new standards in rigid endoscopic imaging.

The IMAGE1 SPIES™ modular design allows customization to individual needs so that the system is optimally adapted to suit user requirements.

New FULL HD three-chip camera heads with SPIES™ functionality complement the system and provide diverse visualization possibilities for endoscopic imaging.

The modular concept of IMAGE1 SPIES™ integrates today's KARL STORZ IMAGE1 FULL HD three-chip camera heads into the new camera platform via IMAGE1 H3-LINK™.





IMAGE1 CONNECT

IMAGE1 CONNECT is the core of IMAGE1 SPIES™. Intelligent icons on the user interface assist user navigation. The system also provides easy and precise visualization of current settings.

Monitors as well as documentation units are connected to IMAGE1 SPIES™ via DVI and 3G-SDI outputs. Various link modules can be connected to IMAGE1 CONNECT and controlled simultaneously. The KARL STORZ Communication Bus (SCB) enables communication with other units, such as light sources or insufflators.

IMAGE1 CONNECT stores various user profiles. It also enables individual settings, customized to the surgeon's preferences or the procedure, to be saved.

Image and video data are recorded using an integrated documentation function. This data is transferred to external storage media via one of four USB interfaces.

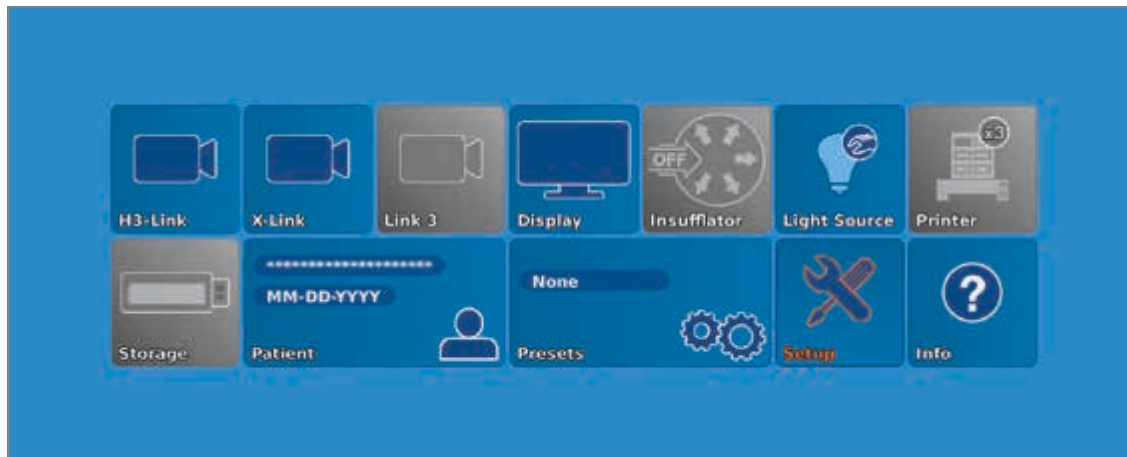




IMAGE1 H3-LINK™

IMAGE1 H3-LINK™ is the link to the new IMAGE1 H3-SPIES™ FULL HD camera heads. In addition to their customary ergonomics and versatility, the striking feature of these new camera heads is a unique and brilliant imaging. Excellent color rendition and crisp details in FULL HD is ensured by the proven three-chip camera head technology. An optical parfocal zoom guarantees magnification of the viewed image without a loss in quality. The characteristic KARL STORZ backwards compatibility allows continued use of existing three-chip FULL HD camera heads with their current functionality.



spies® – STORZ **P**ROFESSIONAL **I**MAGE **E**NHANCEMENT **S**YSTEM

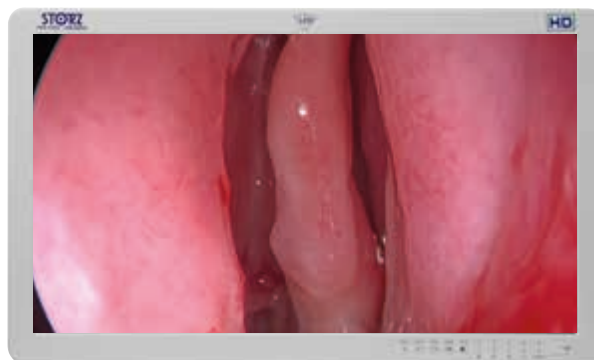
Innovative Visualization Tools for Surgery and Diagnosis via Homogeneous Illumination and Contrast Enhancement

SPIES CLARA™

A good endoscopic image features a clear display of details in both light and dark areas. SPIES CLARA™ supports proper illumination in each part of the endoscopic image.



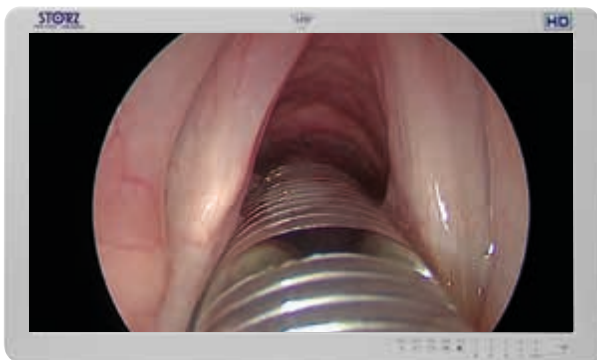
White light image



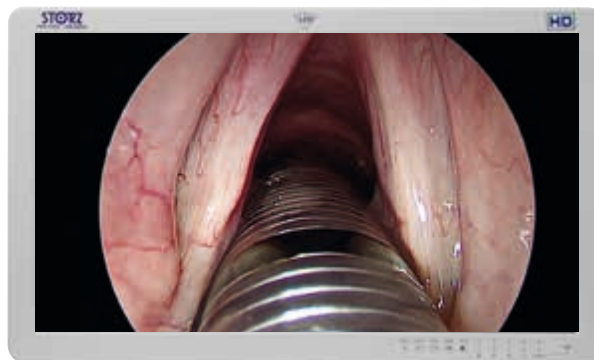
CLARA

SPIES CHROMA®

Surgical interventions are more efficient if clear differentiation of tissue is possible. SPIES CHROMA® intensifies the color contrast in the image. Clearly visible structure surfaces are given added emphasis while retaining the natural color perception in the image.



White light image

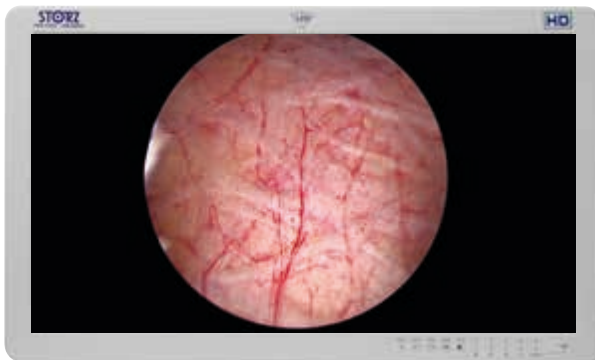


CHROMA

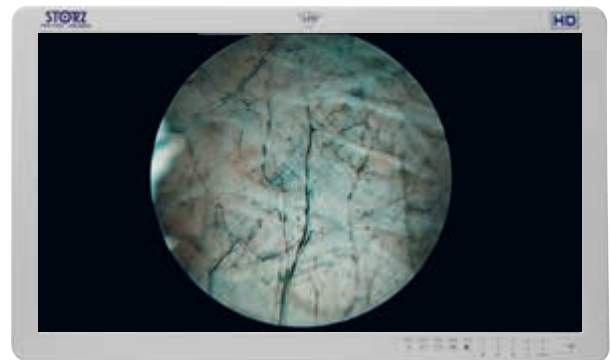
Innovative Visualization Tools for Surgery and Diagnosis by Shifting the Color Spectrum

SPIES SPECTRA™

SPIES SPECTRA™ allows recognition of the finest tissue structures. The bright red portions of the visible spectrum are filtered out and the remaining color portions are expanded. This makes it easier to differentiate between tissue types.

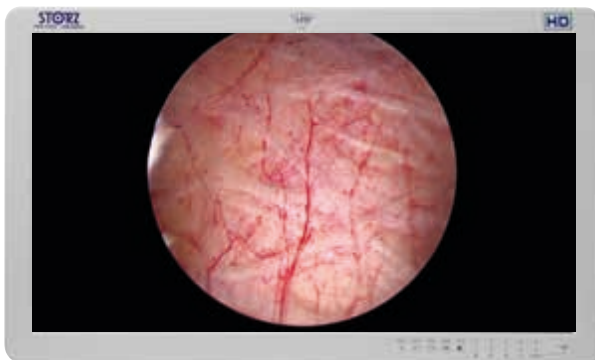


White light image

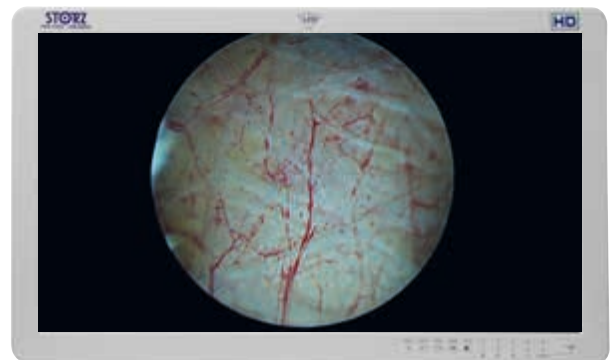


SPECTRA A

SPIES SPECTRA™ offers two different modes so that the user can select the display that suits best.



White light image



SPECTRA B

IMAGE1 SPIES™



TC 200EN*

IMAGE1 CONNECT, connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz 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, US



TC 300

IMAGE1 H3-LINK™, link module, for use with IMAGE1 FULL HD three-chip camera heads, power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 CONNECT TC 200EN including:

including:

Mains Cord, length 300 cm

Link Cable, length 20 cm

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



TH 100

IMAGE1 H3-Z SPIES™ Three-Chip FULL HD Camera Head, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length $f = 15\text{-}31\text{ mm}$ (2x), 2 freely programmable camera head buttons, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD/HD



TH 103

IMAGE1 H3-P SPIES™ Three-Chip FULL HD Pendulum Camera Head, SPIES™ compatible, with pendulum system and fixed focus, progressive scan, soakable, gas- and plasma-sterilizable, focal length $f = 16\text{ mm}$, 2 freely programmable camera head buttons, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD/HD



TH 101

IMAGE1 H3-ZI SPIES™ Three-Chip FULL HD Inline Camera Head, SPIES™ compatible, 0° cable exit (inline), progressive scan, soakable, gas and plasmasterilizable, with integrated Parfocal Zoom Lens, focal length $f = 15 - 31\text{ mm}$ (2x), 2 freely programmable camera head buttons, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD/HD



TH 104

IMAGE1 H3-ZA SPIES™ Three-Chip FULL HD Camera Head, autoclavable, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length $f = 15-31$ mm (2x), 2 freely programmable camera head buttons, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD/HD



TH 102

IMAGE1 H3-Z FI SPIES™ Three-Chip FULL HD Camera Head, SPIES™ compatible, for perfusion diagnosis of tissues and organs with indocyanine green (ICG) in conjunction with light source D-LIGHT P, progressive scan, with integrated Parfocal Zoom Lens, focal length $f = 15-31$ mm (2x), 2 freely programmable camera head buttons, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD/HD



TH 106

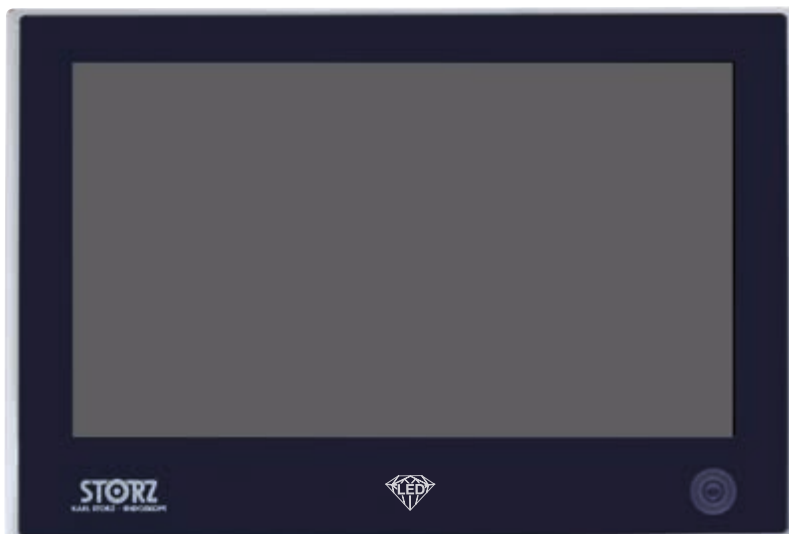
IMAGE1 H3-M COVIEW® SPIES™ Three-Chip FULL HD Camera Head, SPIES™ compatible, max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with IMAGE1 SPIES™ and IMAGE 1 HUB™ HD

Camera Heads Compatible with IMAGE1 H3-LINK™ TC 300

TH 100	IMAGE1 H3-Z SPIES™ Three-Chip FULL HD Camera Head
TH 101	IMAGE1 H3-ZI SPIES™ Three-Chip FULL HD Camera Head
TH 102	IMAGE1 H3-Z FI SPIES™ Three-Chip FULL HD Camera Head
TH 103	IMAGE1 H3-P SPIES™ Three-Chip FULL HD Camera Head
TH 104	IMAGE1 H3-ZA SPIES™ Three-Chip FULL HD Camera Head
TH 106	IMAGE1 H3-M COVIEW® SPIES™ Three-Chip FULL HD Camera Head
22 2200 55-3	IMAGE1 H3-Z Three-Chip FULL HD Camera Head
22 2200 56-3	IMAGE1 H3-P Three-Chip FULL HD Pendulum Camera Head
22 220053-3	IMAGE1 H3-ZI Three-Chip FULL HD Inline Camera Head
22 2200 61-3	IMAGE1 H3-ZA Three-Chip FULL HD Camera Head
22 2200 54-3	IMAGE1 H3-M COVIEW® Three-Chip FULL HD Microscope Camera Head

The SPIES™ functionality is exclusively for use with IMAGE1 H3 SPIES™ camera heads only.

Monitors



9627 NB

27" FULL HD Monitor, color systems PAL/NTSC,
max. screen resolution 1920 x 1080,
image format 16:9, Interface: RS 232,
power supply 85-264 VAC, 50/60 Hz,
wall mount with VESA 100 adaptor
including:
External 24 VDC Power Supply
Mains Cord



9826 NB

26" FULL HD Monitor, color systems PAL/ NTSC,
max. screen resolution 1920 x 1080, image format 16:9,
Video inputs: DVI, 3G-SDI, VGA, S-Video, Composite,
Video outputs: DVI, 3G-SDI, Composite,
power supply 100-240 VAC, 50/60 Hz, 5 V DC output (1 A),
wall mount with VESA 100 adaptor
including:

External 24 VDC Power Supply
Mains Cord

Data Management and Documentation

KARL STORZ AIDA® – Exceptional 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 fully new documentation experience – AIDA™.

AIDA™ seamlessly integrates into existing infrastructures and exchanges data with other systems using common standard interfaces.



WD 200-XX* **AIDA™ Documentation System**, for recording still images and videos, dual channel up to FULL HD, 2D/3D, power supply 100-240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad

ACC Connecting Cable

DVI Connecting Cable, length 200 cm

HDMI-DVI Cable, length 200 cm

Mains Cord, length 300 cm



WD 250-XX* **AIDA™ Documentation System**, for recording still images and videos, dual channel up to FULL HD, 2D/3D, **including SMARTSCREEN® (touch screen)**, power supply 100-240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad

ACC Connecting Cable

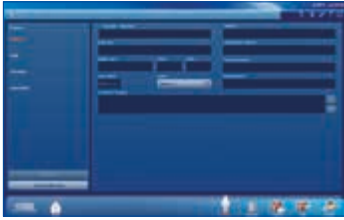
DVI Connecting Cable, length 200 cm

HDMI-DVI Cable, length 200 cm

Mains Cord, length 300 cm

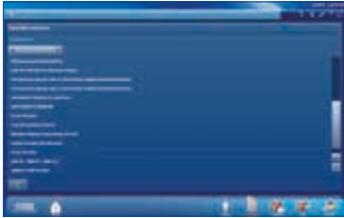
*XX Please indicate the relevant country code (DE, EN, ES, FR, IT, PT, RU) when placing your order.

Workflow-oriented use



Patient

Entering patient data has never been this easy. AIDA™ seamlessly integrates into the existing infrastructure such as HIS and PACS. Data can be entered manually or via a DICOM worklist. 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 for sustainably increasing patient safety.



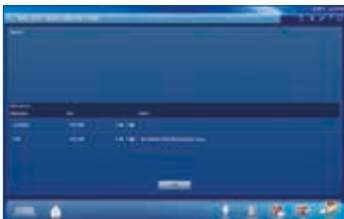
Record

High-quality documentation, with still images and videos being recorded in FULL HD and 3D. The Dual Capture function allows for the parallel (synchronous or independent) recording of two sources. 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 very rapidly completed. Recordings can be quickly optimized and then directly placed in the report. In addition, freeze frames can be cut out of videos and edited and saved. Existing markings from the Record module can be used for quick selection.



Complete

Completing a procedure 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.



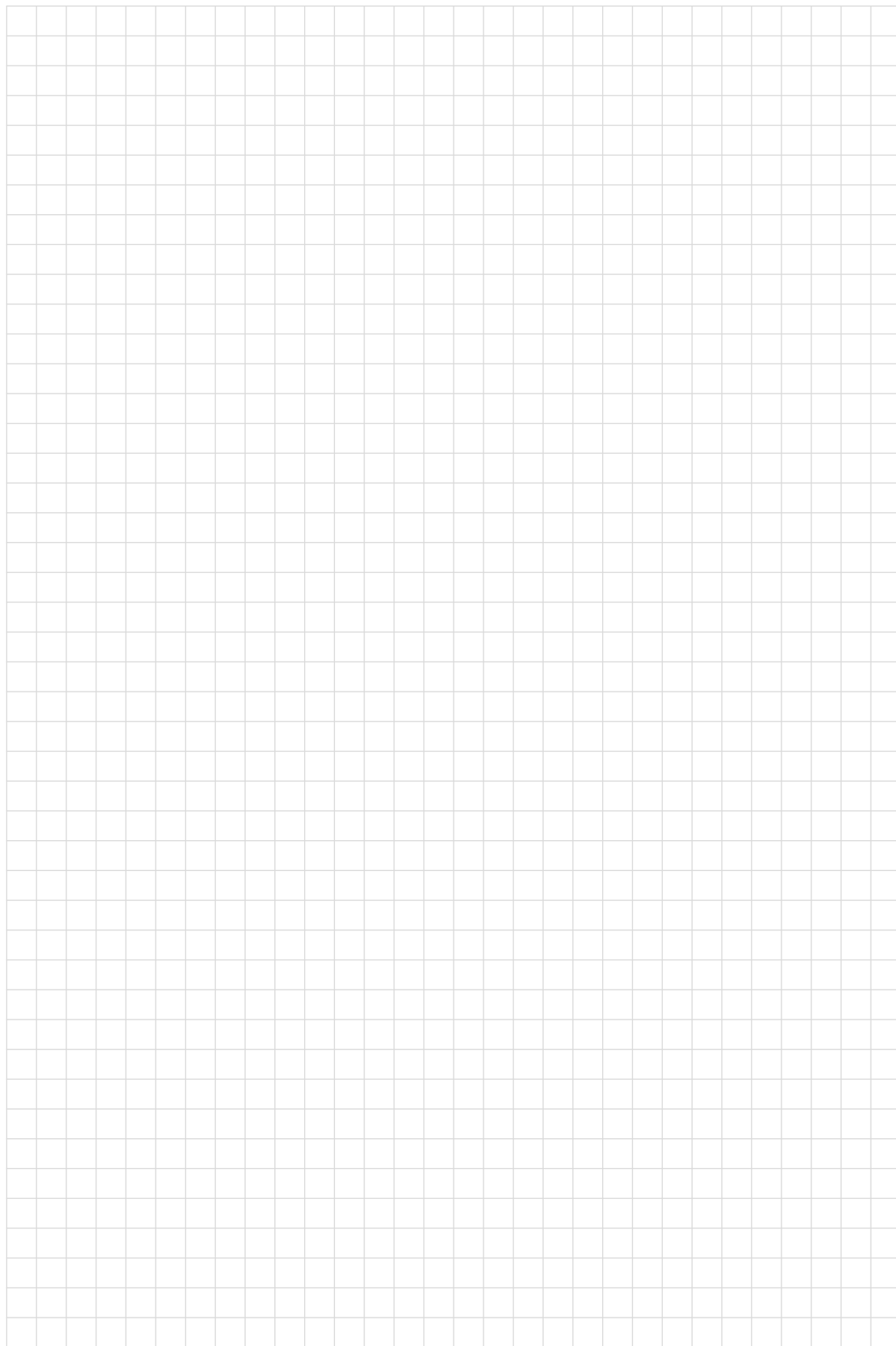
Reference

All important patient information is always available and easy to access. Completed procedures including all information, still images, videos, and the checklist report can be easily retrieved from the Reference module.

Notes



Notes



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



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