

Highlights 2020

TELEPRESENCE –

Imaging Systems, Documentation,
Illumination, Videocarts



Introduction

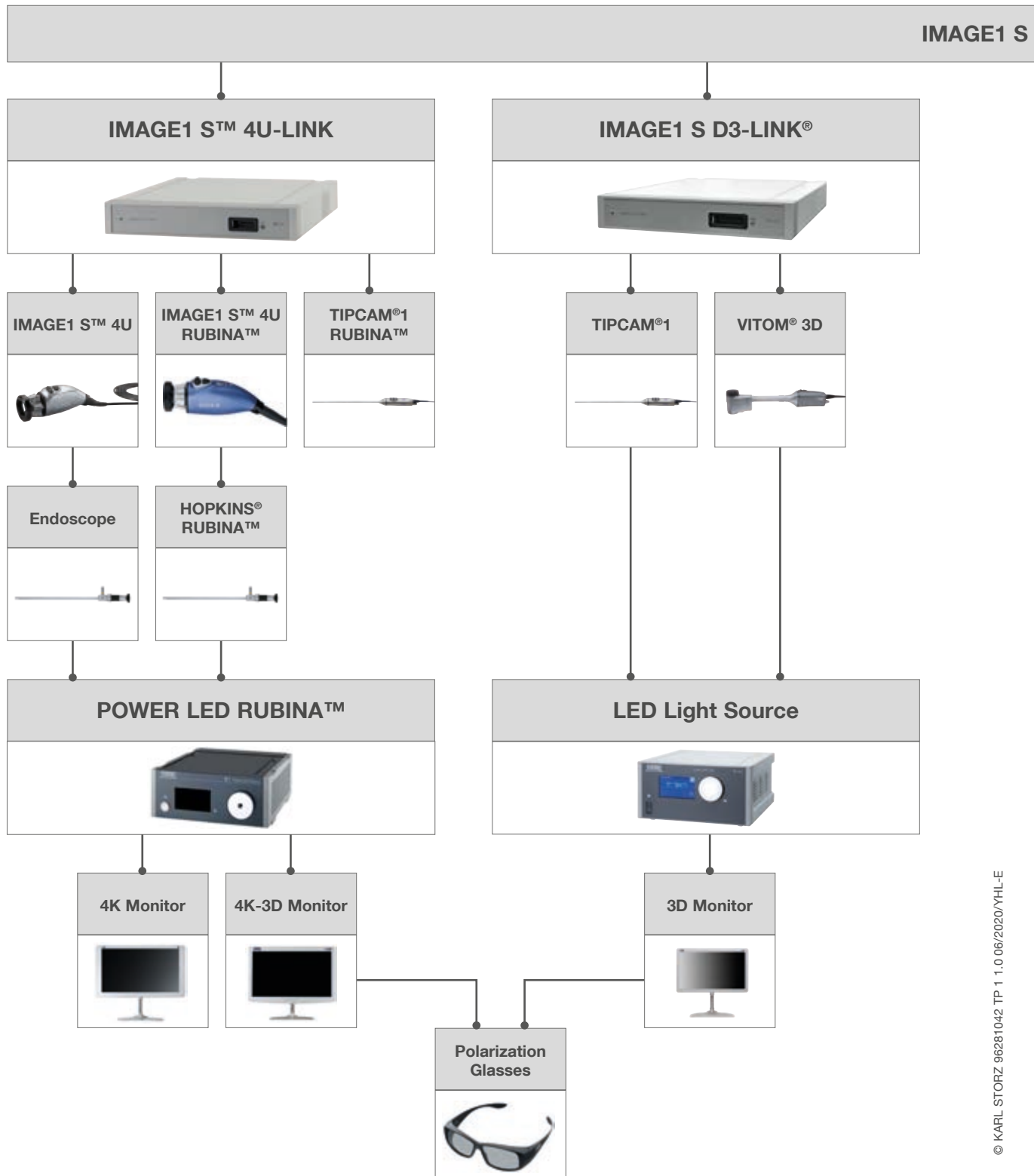
In minimally invasive surgery (MIS), excellent endoscopic imaging is a fundamental requirement for excellent surgical results.

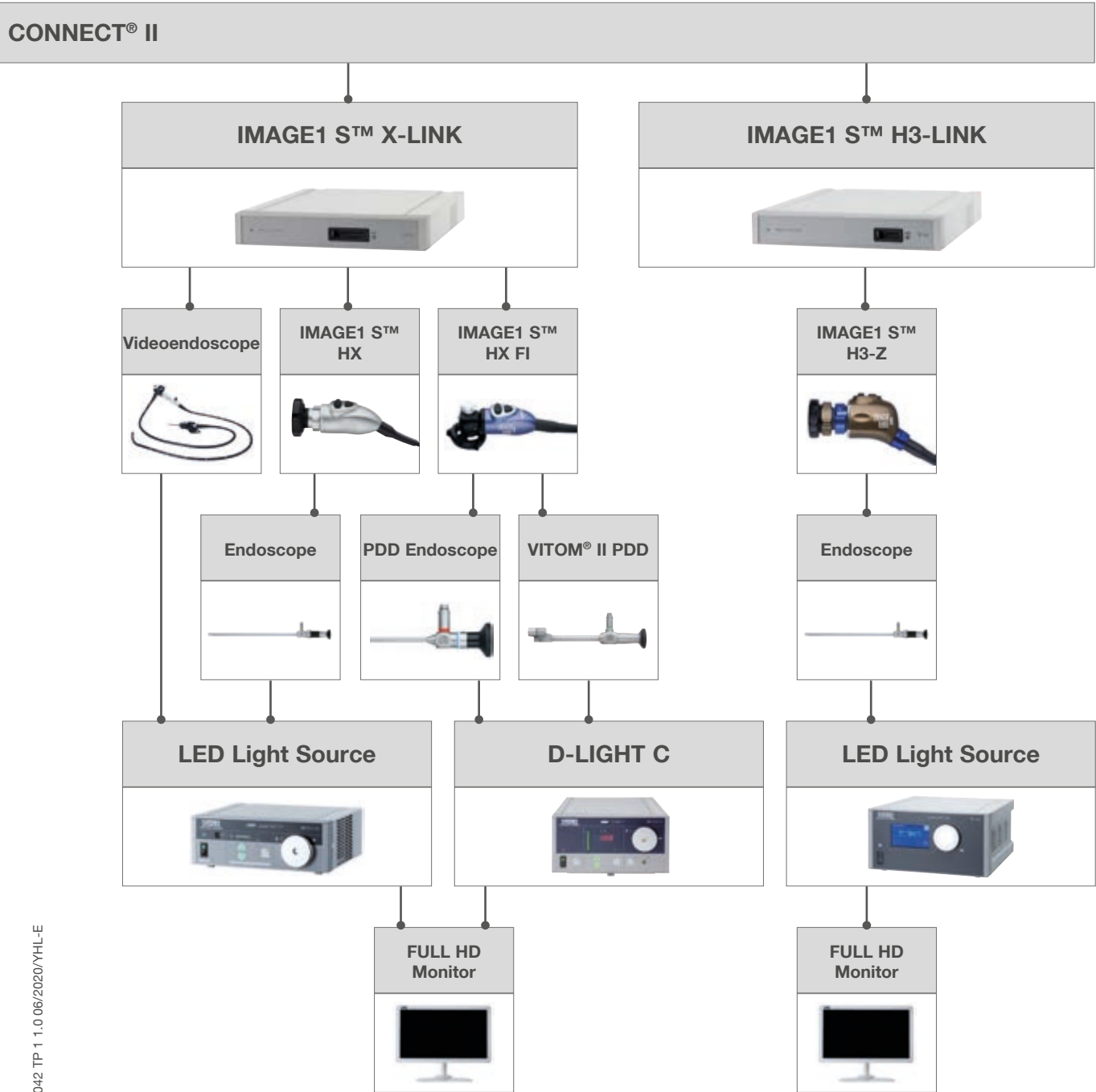
Before the endoscopic image is displayed on the monitor, the image is relayed through various links of the imaging chain starting with the light source and ending with the displayed image on the monitor.

All these links form the endoscopic imaging chain. For over 60 years, KARL STORZ 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.

The rapid development of camera technology in recent years has resulted in a better view of the surgical field and a much wider treatment spectrum. This ultimately leads to better outcomes for patients. New standards in resolution as well as new technologies and innovative approaches form the basis for this trend.

Overview: IMAGE1 S™ Camera Platform





**NEW**

IMAGE1 S™ 4U – mORe than a camera

The IMAGE1 S™ 4U camera system allows the operating surgeon to make optimal use of the benefits offered by 4K technology. A notable feature is the image quality: High image brightness, impressive colors, greater richness of detail and a significantly improved depth effect characterize this system. Thanks to the system's modularity, 4U components can be easily integrated into the existing IMAGE1 S™ camera platform. Consequently, the system is still compatible with existing technologies (e.g., rigid, flexible, fluorescence and 3D endoscopy) and can be adapted to meet individual customer needs.

- IMAGE1 S™ 4U impresses with outstanding, razor-sharp images
 - Excellent image brightness
 - First-rate color rendition
 - Greater richness of detail
- Three innovative visualization technologies for tissue differentiation:
 - CLARA: Homogeneous illumination
 - CHROMA: Contrast enhancement
 - SPECTRA*: Spectral color shift and switch
- Easy integration into the IMAGE1 S™ camera platform

* not for sale in the U.S.

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC304	IMAGE1 S™ 4U-LINK , link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC 201
TH121	IMAGE1 S™ 4U RUBINA , OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
TH120	IMAGE1 S™ 4U One-Chip 4K UHD Camera Head , S-Technologies available, progressive scan, soakable, EO sterilization, H ₂ O ₂ (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK
TM440	58" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 400 x 400 and VESA 400 x 200 adaptors
TM 342**	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 100 and VESA 200 adaptors
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, 100-240 VAC, 50/60 Hz, wall mount with VESA 200 and VESA 300 adaptors
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450
Suitable equipment cart for TM440 and TM450:	
WA10007	OR1™ Cart for Monitor, Set , height-adjustable, for 42-64" monitor, 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
TM350	32" 4K 3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 100 adaptor
TL400	Cold Light Fountain POWER LED RUBINA , for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz
TL300	Cold Light Fountain POWER LED 300 SCB , with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100-240 VAC, 50/60 Hz
495NAC	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
495NCSC	Same , diameter 4.8 mm, length 250 cm
495TIP	Same , diameter 4.8 mm, length 300 cm

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

** TM342 not available in USA, Japan & China



4K Monitor Portfolio

In conjunction with the IMAGE1 S™ 4U camera system, new 4K monitors now complement the imaging chain from KARL STORZ. The monitors are available in various sizes and technologies (2D/3D) in order to meet the individual requirements of different interventions.

4K technology offers an extended color space combined with enhanced color saturation due to the implementation of the BT.2020 standard in the monitors.

Thanks to the special tempered safety glass, all monitors feature strong resistance to scratches and knocks.

With a screen diagonal of 32", the monitors feature an enclosed glass surface that allows quick and easy wipe disinfection to guarantee optimal hygiene properties.

TM440	58" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, video inputs: DisplayPort 1.2, 12G-SDI, HDMI 2.0, DVI-D, video outputs: 12G-SDI, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 400 x 400 and VESA 400 x 200 adaptors Suitable Mobile Cart for TM440 and TM450:
WA10007	OR1™ Cart for Monitor, Set , height-adjustable, for monitors 42-64", VESA pattern min. 100/100, max. 400/400, monitor weight max. 60 kg, monitor holder height-adjustable on 180 cm high column, four castors, floor area: 980 x 830 mm, total height: 195 cm
TM342*	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, video inputs: DisplayPort 1.2, 12G-SDI, HDMI 2.0, 2x DVI-D, video outputs: 12G-SDI, 2x DVI-D, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 200 adaptor
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, video inputs: 5x 3G-SDI, DVI-D, HDMI 1.4b, Ethernet, video outputs: 5x 3G-SDI, DVI-D, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 200 and VESA 300 adaptors
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, video inputs: DisplayPort 1.2, 12G-SDI, HDMI 2.0, 2x DVI-D, HDMI 1.4b, video outputs: 12G-SDI, 2x DVI-D, power supply 100-240 VAC, 50/60 Hz, 5V DC output (1 A), wall mount with VESA 100 adaptor

* TM342 not available in USA, Japan & China



IMAGE1 S™ Rubina™ – mORe to discover

IMAGE1 S™ RUBINA™ combines the latest imaging technologies 4K, 3D and fluorescence imaging (NIR/ICG) in one product family. The products impress with 4K image quality in 2D and 3D as well as new NIR/ICG fluorescence modes. The new POWER LED RUBINA™ makes this possible. The new modes, e.g. the superimposed NIR/ICG signal in the white light image, provide the user with valuable information. In addition, IMAGE1 S™ RUBINA™ offers the display intensity of a NIR/ICG signal and a pure near infrared mode in monochromatic color display for the clear delineation of structures.

The following components are included in the IMAGE1 S™ RUBINA™ product family:

- IMAGE1™ S 4U RUBINA™ – 4K camera head with new NIR/ICG functionalities
- TIPCAM®1 RUBINA™ – 4K-3D videoendoscope with automatic horizon control
- POWER LED RUBINA™ – Laser-free LED light source for white light and excitation of NIR/ICG
- HOPKINS® RUBINA™ – Enhanced* NIR/ICG telescopes and new models

The IMAGE1 S™ RUBINA™ technology thus provides new functionalities for the KARL STORZ fluorescence imaging system OPAL1® as well as very good image brightness and richness of color and detail.

* in comparison to previous models

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz
TC304	IMAGE1 S™ 4U-LINK , link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TH121**	IMAGE1 S™ 4U RUBINA™ , OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA™, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
26606ACA	TIPCAM®1 RUBINA™ , OPAL1® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distally integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA™, OPAL1® NIR/ICG and Sync Connecting Cable TL006, direction of view 0°, diameter 10 mm, length 32 cm, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
26606BCA	Same , direction of view 30°
TL400	Cold Light Fountain POWER LED RUBINA™ , for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz
UF101	One-Pedal Footswitch , one-stage
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 200 and VESA 300 adaptors
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 100 adaptor
TM003	3D Polarization Glasses , fogless, passive, for use with 3D monitors
9800C	3D Clip-on Glasses , circularly polarized
TM440	58" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 400 x 400 and VESA 400 x 200 adaptors
TM342***	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 100 and VESA 200 adaptors

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

** For use with HOPKINS® RUBINA™ NIR/ICG telescopes

*** TM342 not available in USA, Japan and China



Power LED Rubina – The New LED Light Source for White Light and NIR/ICG Applications

Power, efficiency, durability and flexibility are the hallmarks of the POWER LED RUBINA cold light source based purely on LED technology. The light source can be used for white light as well as fluorescence applications for displaying NIR/ICG or autofluorescence in the near infrared range. In conjunction with other RUBINA components, it allows the use of various new modes for displaying the NIR/ICG signal: A superimposed NIR/ICG signal in the white light image, an intensity display of the NIR/ICG signal as well as a pure near infrared mode in monochromatic color display for clear delineation of structures.

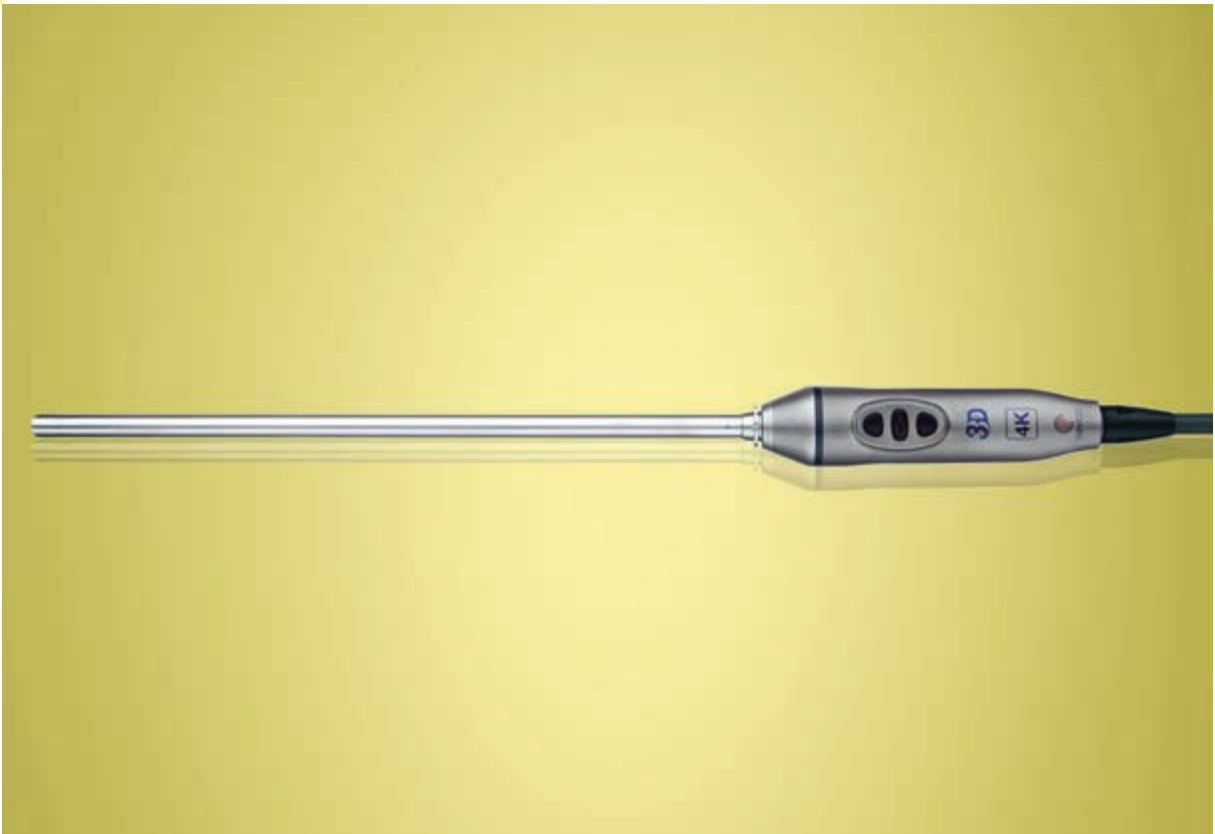
Only long-life LEDs are used so no laser protection measures are necessary

- Laser-free LED light source for white light and excitation of NIR/ICG
- OPAL1® NIR/ICG technology with new functionalities
- Straightforward user interface thanks to intuitive touch screen
- Constant light intensity maintained throughout the entire service life
- Very low volume

- TL400 **Cold Light Fountain POWER LED RUBINA**, for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz
- UF101 **One-Pedal Footswitch**, one-stage

Other recommended products:

- TH121* **IIIMAGE1 S™ 4U RUBINA**, OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length $f = 19$ mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
- 26606ACA **TIPCAM®1 RUBINA**, OPAL1® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distally integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG and Sync Connecting Cable TL006, direction of view 0°, diameter 10 mm, length 32 cm, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
- 26606BCA **Same**, direction of view 30°



TIPCAM®1 Rubina – The New 4K-3D Videoendoscope

TIPCAM®1 RUBINA provides surgeons with excellent depth perception. This stereoscopic system offering 3D in 4K quality is particularly helpful when performing activities that require spatial vision. Thanks to the modular system design, existing IMAGE1 S™ 2D systems can be upgraded to 3D. Whether for laparoscopy, gynecology, urology or heart surgery – the new TIPCAM®1 RUBINA features a wide range of applications.

- 4K image chain
- Automatic horizon control for better orientation and handling
- 4K-3D videoendoscopes with 10 mm diameter as well as 0° and 30° directions of view
- Easy toggle from 3D to 2D
- Easy integration into the IMAGE1 S™ platform

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC304	IMAGE1 S™ 4U-LINK , link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
26606ACA	TIPCAM®1 RUBINA , OPAL1® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distally integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG and Sync Connecting Cable TL006, direction of view 0°, diameter 10 mm, length 32 cm, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
26606BCA	Same , direction of view 30°
TL400	Cold Light Fountain POWER LED RUBINA , for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz
UF101	One-Pedal Footswitch , one-stage
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, 100-240 VAC, 50/60 Hz, wall mount with VESA 200 and VESA 300 adaptors
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D monitor
TM350	32" 4K 3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 100 adaptor
TM003	3D Polarization Glasses , fogless, passive, for use with 3D monitors
9800C	3D Clip-on Glasses , circularly polarized
495TIP	Fiber Optic Light Cable , with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4,8 mm, length 300 cm
495NAC	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
39501XTC	Wire Tray for Cleaning, Sterilization and Storage of TIPCAM®1 S 3D Videoendoscopes 26605AA/BA and one light cable, autoclavable , external dimensions (w x d x h): 640 x 150 x 87 mm

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



IMAGE1 S™ 4U Rubina – The New 4K NIR/ICG Camera Head

IMAGE1 S™ 4U RUBINA combines 4K imaging technology with fluorescence imaging for displaying NIR/ICG or autofluorescence in the near infrared range. The technology features very good image quality as well as new NIR/ICG fluorescence modes. The new modes, e.g. the superimposed NIR/ICG signal in the white light image, provide the user with valuable information. In addition, IMAGE1 S™ RUBINA offers the display intensity of a NIR/ICG signal and a pure near infrared mode in monochromatic color display for the clear delineation of structures.

- Native 4K image resolution with very good image brightness and richness of color and detail
- OPAL1® NIR/ICG technology with new functionalities
- S-Technologies in white light and the overlay modes Overlay and Intensity Map
- Enhanced* NIR/ICG telescopes and new models
- Laser-free LED light source for white light and excitation of NIR/ICG

* in comparison to previous models

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz
TC304	IMAGE1 S™ 4U-LINK , link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TH121**	IMAGE1 S™ 4U RUBINA , OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
TL400	Cold Light Fountain POWER LED RUBINA , for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz
UF101	One-Pedal Footswitch , one-stage
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 200 and VESA 300 adaptors
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 100 adaptor
TM440	58" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 400 x 400 and VESA 400 x 200 adaptors
TM342***	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 100 and VESA 200 adaptors

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

** For use with HOPKINS® RUBINA NIR/ICG telescopes

*** TM342 not available in USA, Japan and China



Stop Guessing. Start Knowing.

PDD – flexibility in visualization with IMAGE1 S™

With Photodynamic Diagnosis (PDD) in FULL HD quality, another component has been added to the IMAGE1 S™ camera platform. The most outstanding feature of the HX FI camera heads is their versatile application possibilities. In addition to the PDD OPAL1® technology, the S-Technologies CHROMA, SPECTRA A* and SPECTRA B* can also be displayed in white light.

- Versatile camera heads with PDD fluorescence imaging and S-Technologies
- FULL HD resolution
- Impressive lightweight and ergonomic design
- Both standard and pendulum camera heads available
- Part of the IMAGE1 S™ camera platform – compatible with IMAGE1 S™ X-LINK
- Easy-to-use PDD functionality via IMAGE1 S™

* not for sale in the U.S.

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz
TC301	IMAGE1 S™ X-LINK , link module, for use with flexible videoendoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TH113	IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head , S-Technologies (CHROMA, SPECTRA*** A and B) available, OPAL1® technologies (PDD) in conjunction with light source D-LIGHT C or D-LIGHT C/AF, with pendulum system and fixed focus, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
TH112	IMAGE1 S™ HX FI One-Chip FULL HD Camera Head , S-Technologies (CHROMA, SPECTRA*** A and B) available, OPAL1® technologies (PDD) in conjunction with light source D-LIGHT C or C/AF, fixed focus, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
TM342**	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9
TM220	27" FULL HD Monitor , screen resolution 1920 x 1080, image format 16:9
2033601-133	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/Hypericin/Autofluorescence and for standard endoscopic diagnosis, with 300 Watt Xenon bulb, power supply 100-125/220-240 VAC, 50/60 Hz
20133601-1	Cold Light Fountain D-LIGHT C SCB , with integrated KARL STORZ-SCB, high-performance light unit for photodynamic diagnosis (PDD) ALA URO/ALA NEURO/Hypericin and for standard endoscopic diagnosis, with 300 Watt Xenon bulb and KARL STORZ light cable connection, power supply 100-125/220-240 VAC, 50/60 Hz
495FS	Fluid Light Cable , diameter 2 mm, length 220 cm
495FO	Fluid Light Cable , diameter 3 mm, length 180 cm
495FP	Fluid Light Cable , diameter 3 mm, length 250 cm
495FR	Fluid Light Cable , diameter 5 mm, length 250 cm
27005AIA	HOPKINS® Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 30 cm, autoclavable , for photodynamic diagnosis (PDD), fiber optic light transmission incorporated, special filter, color code: green
27005BIA	HOPKINS® Forward-Oblique Telescope 30° , enlarged view, diameter 4 mm, length 30 cm, autoclavable , for photodynamic diagnosis (PDD), fiber optic light transmission incorporated, special filter, color code: red
27005CIA	HOPKINS® Lateral Telescope 70° , enlarged view, diameter 4 mm, length 30 cm, autoclavable , for photodynamic diagnosis (PDD), fiber optic light transmission incorporated, special filter, color code: yellow
2016025AIA	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 condenser lenses, color code: green

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

** TM342 not available in USA, Japan & China

*** not for sale in the U.S.

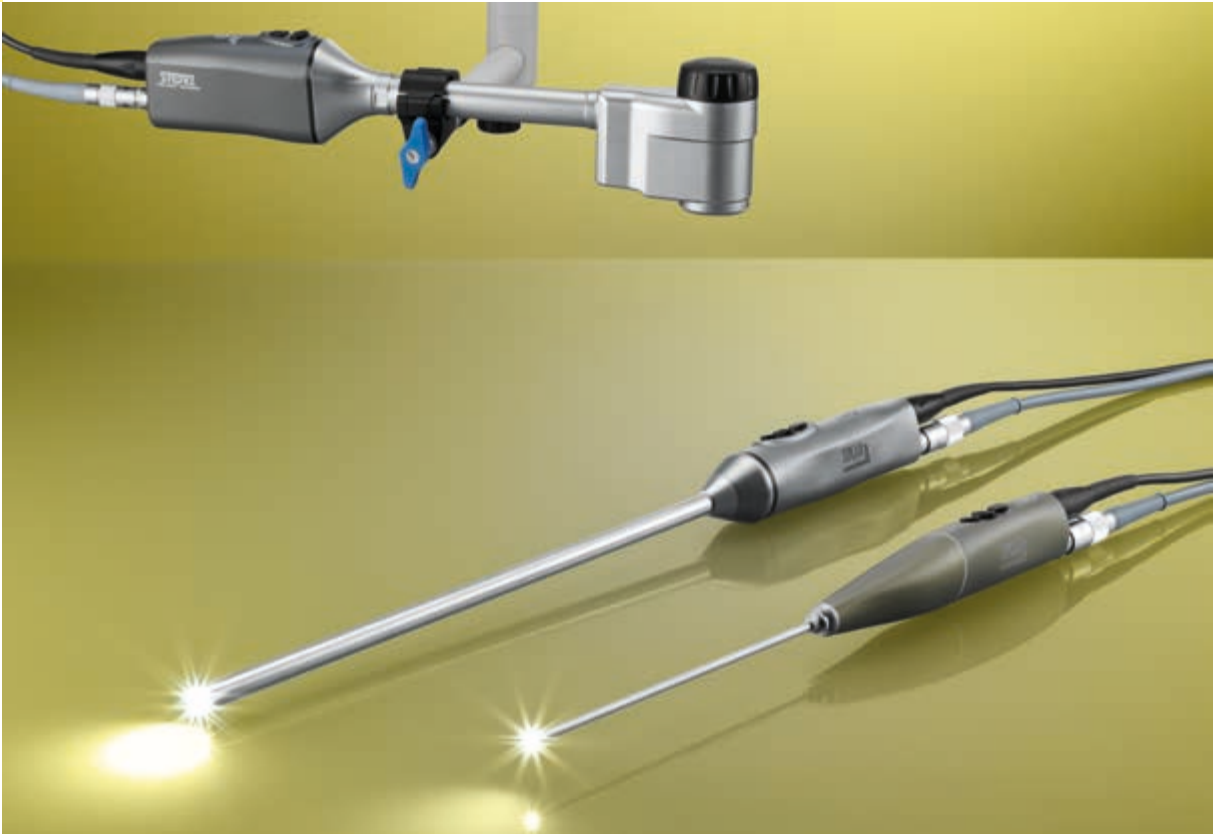


IMAGE1 S™ 3D 4 mm – A Dimension Ahead

IMAGE1 S™ 3D 4 mm provides surgeons with excellent depth perception. Furthermore, the 3D stereoscopic imaging system is particularly valuable for activities that demand a high degree of spatial perception. Thanks to the modular system design, existing 2D systems can be upgraded to 3D.

- 3D system featuring video endoscopes with a diameter of 4 millimeters in 0°, 30° and 45°
- Easy toggle between 3D and 2D
- Easy integration into the IMAGE1 S™ platform
- Three innovative visualization technologies for easy tissue differentiation in 2D and 3D:
 - CLARA: Homogeneous illumination
 - CHROMA: Contrast enhancement
 - SPECTRA*: Spectral color shift and exchange

* not for sale in the U.S.

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC302	IMAGE1 S D3-LINK® , link module, for use with TIPCAM®1 S 3D and VITOM® 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TC015	Extension Cable IMAGE1 S D3-LINK® , length 250 cm, to extend the video connecting cable between a videoendoscope and IMAGE1 S D3-LINK® (TC 302), for use with TIPCAM®1 S 3D LAP (26605AA/BA) and TIPCAM®1 S 3D, diameter 4 mm (7240AA3D/BA3D/FA3D, 28164AA3D/BA3D/FA3D)
7240AA3D	TIPCAM®1 S 3D ORL , direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S D3-LINK®
7240BA3D	Same , direction of view 30°
7240FA3D	Same , direction of view 45°
28164AA3D**	TIPCAM®1 S 3D NEURO , direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S D3-LINK®
28164BA3D**	Same , direction of view 30°
28164FA3D**	Same , direction of view 45°
TH200	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® TC302 and IMAGE1 PILOT TC014
TC014	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 TH200
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9
TM330	32" 3D Monitor , screen resolution 1920 x 1080, image format 16:9
TM263	26" 3D Monitor , screen resolution 1920 x 1080, image format 16:9
TM003	3D Polarization Glasses , fogless, passive, for use with 3D monitors
9800C	3D Clip-on Glasses , circularly polarized
TL300	Cold Light Fountain POWER LED 300 , with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet
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
39501 STC	Wire Tray for Cleaning, Sterilization and Storage of TIPCAM®1 S 3D Videoendoscopes 7240AA3D/BA3D and one light cable, autoclavable , external dimensions (w x d x h): 500 x 150 x 87 mm

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

** Currently not available on CE markets

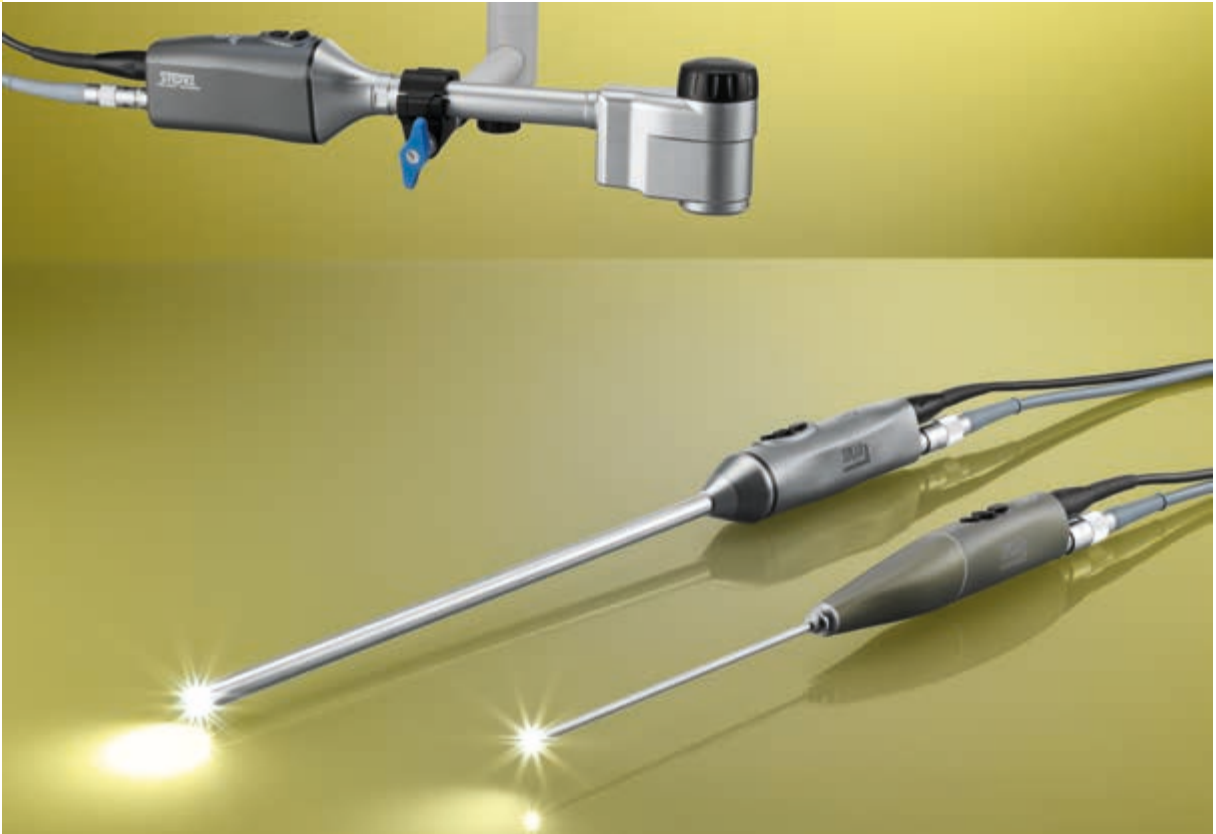


IMAGE1 S™ 3D ENT – A Dimension Ahead

IMAGE1 S™ 3D provides surgeons with excellent depth perception. Furthermore, the 3D stereoscopic imaging system is particularly valuable for activities that demand a high degree of spatial perception. The 3D camera platform from KARL STORZ impresses with its wide range of applications – from ENT to microsurgical interventions.

- 3D system featuring video endoscopes with a diameter of 4 millimeters (direction of view: 0°, 30°, 45°) and VITOM® 3D
- Easy toggle between 3D and 2D
- Easy integration into the IMAGE1 S™ platform
- Three innovative visualization technologies for easy tissue differentiation in 2D and 3D:
 - CLARA: Homogeneous illumination
 - CHROMA: Contrast enhancement
 - SPECTRA*: Spectral color shift and exchange

* not for sale in the U.S

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC302	IMAGE1 S D3-LINK® , link module, for use with TIPCAM®1 S 3D and VITOM® 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TC015	Extension Cable IMAGE1 S D3-LINK® , length 250 cm, to extend the video connecting cable between a videoendoscope and IMAGE1 S D3-LINK® (TC302), for use with TIPCAM®1 S 3D
7240AA3D	TIPCAM®1 S 3D ORL , direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S D3-LINK®
7240BA3D	Same , direction of view 30°
7240FA3D	Same , direction of view 45°
TH200	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® TC302 and IMAGE1 PILOT TC014
TC014	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 TH200
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9
TM330	32" 3D Monitor , screen resolution 1920 x 1080, image format 16:9
TM263	26" 3D Monitor , screen resolution 1920 x 1080, image format 16:9
TM003	3D Polarization Glasses , fogless, passive, for use with 3D monitors
9800C	3D Clip-on Glasses , circularly polarized
TL300	Cold Light Fountain POWER LED 300 , with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet
495NAC	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
495VIT	Fiber Optic Light Cable , with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
39501STC	Wire Tray for Cleaning, Sterilization and Storage of TIPCAM®1 S 3D ORL Videoendoscopes 7240AA3D/BA3D and one light cable, autoclavable , external dimensions (w x d x h): 500 x 150 x 87 mm

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

** Currently not available on CE markets



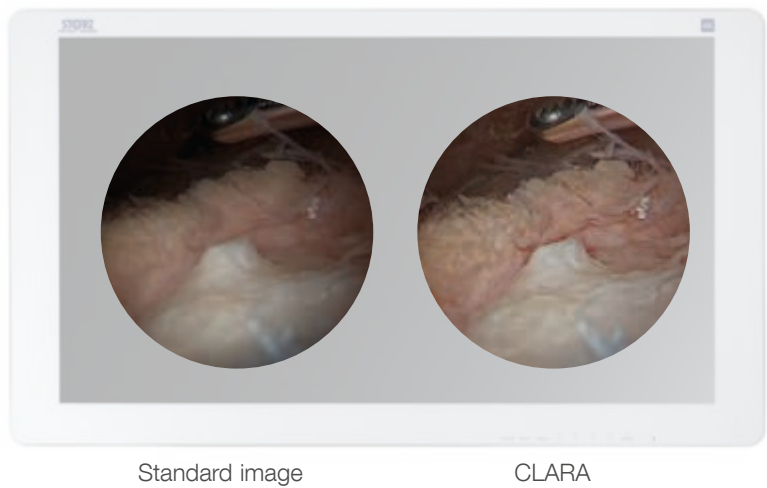
IMAGE1 S™ – As Individual as Your Requirements

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) 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.

- Individual modules can be selected according to user requirements, e.g., for rigid, flexible and 3D technology
- Automatic light source control
- Natural color rendition
- Three innovative visualization technologies for easy tissue differentiation in 2D and 3D:
 - CLARA: Homogeneous illumination
 - CHROMA: Contrast enhancement
 - SPECTRA*: Color shift and exchange

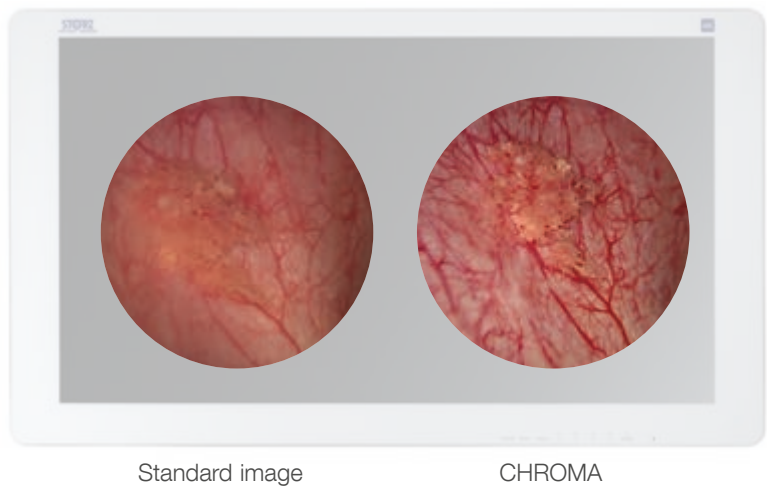
* not for sale in the U.S.

Comparison of S-Technologies:



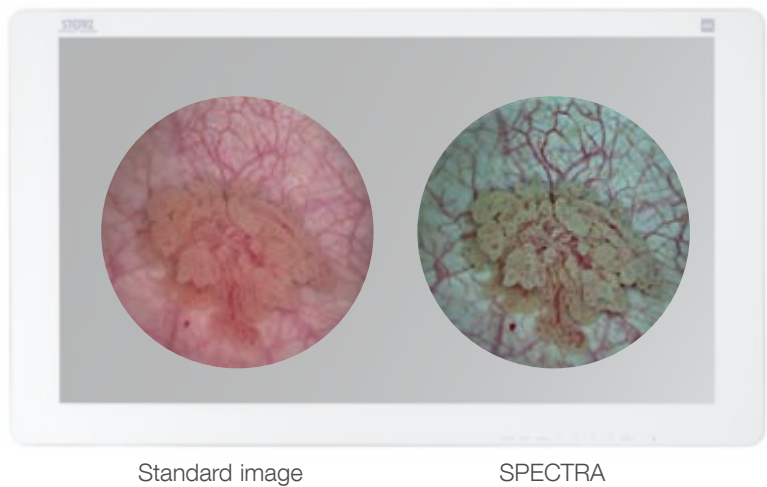
Standard image

CLARA



Standard image

CHROMA



Standard image

SPECTRA
(not for sale in the U.S.)

TC201EN*	IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
TC304	IMAGE1 S™ 4U-LINK , link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TC302	IMAGE1 S D3-LINK® , link module, for use with TIPCAM®1 S 3D and VITOM® 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TC301	IMAGE1 S™ X-LINK , link module, for use with flexible videoendoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TC300	IMAGE1 S™ 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 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201
TH120	IMAGE1 S™ One-Chip 4K UHD Camera Head , S-Technologies available, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK
TH121	IMAGE1 S™ 4U RUBINA , OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
TH113	IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head , S-Technologies (CHROMA, SPECTRA**** A and B) available, OPAL1® technologies (PDD) in combination with light source D-LIGHT C or D-LIGHT C/AF, with pendulum system and fixed focus, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
TH110	IMAGE1 S™ HX One-Chip FULL HD Camera Head , 50/60 Hz, fixed focus, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
TH102	IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head , 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 S™ H3-LINK and IMAGE 1 HUB™ HD/IMAGE1 HD
TH100	IMAGE1 S™ Three-Chip FULL HD Camera Head , 50/60 Hz, S-Technologies available, progressive scan, soakable, EO sterilizable, H ₂ O ₂ (hydrogen peroxide), with integrated Parfocal Zoom Lens, focal length f = 15-31 mm (2x), 2 freely programmable camera head buttons, for use with IMAGE1 S™ H3-LINK TC300 and IMAGE 1 HUB™ HD/IMAGE1 HD
26606ACA	TIPCAM®1 RUBINA , OPAL1® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distal integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG and Sync Connecting Cable TL006, direction of view 0°, diameter 10 mm, length 32 cm, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connection cable, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK
26606BCA	Same , direction of view 30°

26605AA	TIPCAM®1 S 3D LAP , with two FULL HD image sensors, direction of view 0°, diameter 10 mm, length 32 cm, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™
26605BA	Same , direction of view 30°
7240AA3D	TIPCAM®1 S 3D ORL , direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™
7240BA3D	Same , direction of view 30°
7240FA3D	Same , direction of view 45°
28164AA3D**	TIPCAM®1 S 3D NEURO , direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, autoclavable , S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S D3-LINK®
28164BA3D**	Same , direction of view 30°
28164FA3D**	Same , direction of view 45°
TH200	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 TC014
TC014	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 TH200
TM440	58" 4K Monitor , screen resolution 3840 x 2160, image format 16:9
TM342***	31" 4K Monitor , screen resolution 3840 x 2160, image format 16:9
TM450	55" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9
TM009	Signal Converter Set , 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450
TM350	32" 4K/3D Monitor , screen resolution 3840 x 2160, image format 16:9
TM220	27" FULL HD Monitor , screen resolution 1920 x 1080, image format 16:9
TL300	Cold Light Fountain Power LED 300 , with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet
495NCSC	Fiber Optic Light Cable , with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm
495NAC	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

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

** Currently not available on CE markets

*** TM342 not available in USA, Japan & China

**** not for sale in the U.S.



POWER LED 300 SCB – Powerful. Efficient. Durable.

The POWER LED 300 perfectly combines high performance with efficiency. Its intelligent cooling management and laser light technology combine the advantages of LED technology with the light output of a 300 Watt Xenon light source – in a unit offering extremely quiet operation. Durability, economy, environmental friendliness, and performance are the terms that best characterize this light source.

- Light intensity similar to a 300 Watt Xenon light source
- No lamp replacement required for 30,000 hours
- Constant light intensity throughout the operating life
- Low heat development
- Very quiet operation
- Energy savings thanks to high efficiency
- Environmentally friendly

- TL300 **Cold Light Fountain POWER LED 300 SCB**, with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100-240 VAC, 50/60 Hz
- TL005 **Triple Adaptor**, for use with POWER LED 300 cold light fountain in conjunction with KARL STORZ, Olympus, Stryker and Wolf light cables
- 20090170 **SCB Connecting Cable**, length 100 cm

Further recommended products:

- 201614 01-1 **Cold Light Fountain POWER LED 175 SCB**, with integrated KARL STORZ-SCB, high-performance LED and one KARL STORZ light cable connection, power supply 100-240 VAC, 50/60 Hz
- TL100S1 **Cold Light Fountain CO₂MBI® LED SCB**, with integrated KARL STORZ-SCB, high-performance LED and integrated insufflation pump for air and CO₂, power supply 100-240 VAC, 50/60 Hz, for use with KARL STORZ videoendoscopes
- TL400 **Cold Light POWER LED RUBINA**, for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz



TELE PACK+

Compact endoscopy

Imaging diagnosis is performed not only in hospitals but also, for example, in doctors' offices, day clinics or outpatient settings. Compact, flexible units with high image quality are in demand here. The new TELE PACK+ ALL-IN-ONE system from KARL STORZ meets these requirements. The system combines a monitor, LED light source, FULL HD camera control unit and documentation with integrated network function in a portable and compact unit.

- Image display in FULL HD quality
- 18.5" touch screen monitor with on-screen keyboard
- Integrated LED light source with stroboscopy function and automatic light source control
- Compatibility with rigid, flexible and single-use endoscopes from KARL STORZ
- Documentation with storage possibilities on USB memory devices and freely available internal memory of 50 GB
- Network functionality in combination with the software tool SCENARA®.CONNECT for the export and import of patient data in/out of HIS/PACS

TP101	<p>TELE PACK+, endoscopic video unit with 2 camera inputs (X-Line and C-Line) for use with flexible videoendoscopes and one-chip camera heads (up to FULL HD), incl. LED light source, digital Image Processing Module with USB and network storage options as well as 18.5" FULL HD touch screen monitor, power supply 100-240 VAC, 50/60 Hz including:</p> <p>Mains Cord, length 300 cm</p> <p>Camera Heads</p>
TH110	IMAGE1 S™ HX , one-chip FULL HD camera head, 50/60 Hz, fixed focus, progressive scan, soakable, gas and plasma sterilizable, focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™
TH111	IMAGE1 S™ HX-P , one-chip FULL HD pendulum camera head, 50/60 Hz, with pendulum system and fixed focus, progressive scan, soakable, gas and plasma sterilizable, focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™
TH130	H1 Camera Head , one-chip HD camera head, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons in combination with TELE PACK+, for use with TELE PACK+ TP101, C-HUB II® 20290320 and C-MAC® Monitor for CMOS Endoscopes 8403ZX
	ENT Videoendoscopes
11101HD	HD Video Rhino-Laryngoscope , direction of view 0°, angle of view 100°, working length 30 cm, outer diameter 3.7 mm, deflection up/down 140°/140°
11102CM	CMOS Video Rhino-Laryngoscope , direction of view 0°, angle of view 100°, deflection up/down 140°/140°, outer diameter 2.9 mm, working length 30 cm
091370-01	CMOS Video Esophagoscope SSU , direction of view 0°, angle of view 90°, working length 75 cm, outer diameter 3.5 mm, deflection up/down 210°/140°, sterile, for single use, for use with E-BOX TP010 and TELE PACK+
091330-01	CMOS Video Rhino-Laryngoscope SSU , direction of view 0°, angle of view 90°, working length 30 cm, outer diameter 3.5 mm, deflection up/down 140°/140°, sterile, for single use, for use with E-BOX TP010 and TELE PACK+
	Urology Videoendoscopes
11278VSU	Video Uretero-Renoscope FLEX-X^c , steerable, compatible with IMAGE1 S™ X-LINK TC301, with contrapositive deflection, deflection of distal tip 270°/270°, direction of view 0°, angle of view 90°, working channel diameter 3.6 Fr., sheath size 8.5 Fr., working length 70 cm
11278VSUE	Same , working channel with T-LUER, including case and pressure compensation cap
11278VS	Video Uretero-Renoscope FLEX-X^c , steerable, compatible with IMAGE1 S™, working channel 3.6 Fr., direction of view 0°, angle of view 90°, sheath size 8.5 Fr., working length 70 cm
11278VSE	Same , working channel with T-LUER, including case and pressure compensation cap
11272VH	Flexible Video Cystoscope HD-VIEW™ , with positive deflection, with suction channel and integrated light source, deflection of distal tip 210°/140°, direction of view 0°, angle of view 100°, working channel diameter 7 Fr., sheath size 16 Fr., working length 37 cm
11272 VHU	Same , with contrapositive deflection
11272VE	CMOS Video Cysto-Urethroscope , steerable, working channel diameter 7 Fr., direction of view 0°, angle of view 100°, sheath size 15.6 Fr., working length 37 cm
11272VUE	Same , with contrapositive deflection



TELE PACK X GI – The Mobile All-in-One Solution with Network Connection

The TELE PACK X GI series offers a monitor, LED light source, camera control unit, and data management with integrated network function as a portable mobile solution in a single unit.


- For universal use in doctors' offices, emergency rooms, intensive care units and outpatient settings
- High performance LED light source ensures bright and uniform illumination with an average lamp life of 30,000 hours
- Pump function for insufflation of the transanal cavity
- Archiving of still images and videos on USB flash drive, SD card or the hospital and/or practice network
- Compatible with all current KARL STORZ gastro-, colono- and duodenoscopes as well as rigid endoscopes, fiberscopes, the flexible TROIDL rectoscope and the video rhinolaryngoscope
- Clear patient information
- Effective tool for medical training and further education

TP200EN*	TELE PACK X GI , endoscopic video unit for use with all KARL STORZ TELECAM one-chip camera heads and videoendoscopes, incl. LED light source similar to Xenon technology, with integrated digital Image Processing Module, 15" LCD TFT monitor with LED backlight, USB/SD memory module, color systems PAL/NTSC, power supply 100-240 VAC, 50/60 Hz
20212030	TELECAM One-Chip Camera Head , color system PAL, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 25-50 mm (2x), 2 freely programmable camera head buttons
20212130	Same , color system NTSC
20212032	TELECAM Beamsplitter One-Chip Camera Head , color system PAL, soakable, gas sterilizable, with rotating CCD sensor, f = 25 mm, 2 freely programmable camera head buttons
20212132	Same , color system NTSC
549M	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
20014330	Two-Pedal Footswitch , one-stage
20040282	USB Flash Drive , 32 GB
20040281	Same , 4 GB

Accessories for Network Integration

TP001	SD Card , 32 GB, for use with all TELE PACK X and TELE PACK X LED models
20040276	RJ-45 Network Cable , length 100 cm
20040076	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)

Accessories for Rigid Endoscopy

040115-40**	Camera Cover , telescopic folding with paper insertion aid, 13 x 242 cm, sterile, for single use, package of 40	
20045030	Adaptor , for TELE PACK X, TELE PACK X LED, TELE PACK X GI and TELE PACK X VET, in combination with light cables and videoendoscopes	

Accessories for Flexible Endoscopy

20213070	Video Connecting Cable , for use between KARL STORZ videoendoscopes and TELECAM Camera Control Units (CCU) or TELE PACK video units
20045031	Light Adaptor for Videoendoscopes , for TELE PACK X, TELE PACK X LED, TELE PACK X GI and TELE PACK X VET in combination with Video Bronchoscopes 11900 BP/BN and video gastroscopes

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

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Anesthesiology

- 11910T **LIVE HD Video Bronchoscope 6.5/2.8**, distal tip outer diameter 6.5 mm, working channel diameter 2.8 x 3.2 mm, deflection 180°/130°, direction of view 0°, angle of view 100°, depth of view 3-50 mm, working length 60 cm, for use with IMAGE1 S™ or TELE PACK+
- 11910D **LIVE HD Video Bronchoscope 5.5/2.0**, distal tip outer diameter 5.5 mm, working channel diameter 2.2 x 2 mm, deflection 210°/140°, direction of view 0°, angle of view 100°, depth of view 3-50 mm, working length 60 cm, for use with IMAGE1 S™ or TELE PACK+
- 8403X **C-MAC® Connecting Cable**, with C-MAC® system interface, for C-MAC® Monitor 8403ZXK or C-HUB® II 20290301, length 200 cm, for use with C-MAC® Video Laryngoscopes 8403xxx
- 11304BCXK **Flexible Intubation Videoendoscope Set 6.5 x 65**, CMOS technology, with suction valve, deflection up/down 180°/140°, direction of view 0°, angle of view 100°, working length 65 cm, total length 94 cm, working channel diameter 3 mm, distal tip outer diameter 6.3 mm
- 11303BNXK **Flexible Intubation Videoendoscope Set 5.5 x 65**, CMOS technology, with suction valve, deflection up/down 140°/140°, direction of view 0°, angle of view 100°, working length 65 cm, total length 94 cm, working channel diameter 2.1 mm, distal tip outer diameter 5.5 mm
- 11302BDXK **Flexible Intubation Videoendoscope Set 4.0 x 65**, CMOS technology, with suction valve, deflection up/down: 140°/140°, direction of view 0°, angle of view 100°, working length 65 cm, total length 93 cm, working channel diameter 1.5 mm, distal tip outer diameter 4 mm
- 11301ABXK **Flexible Intubation Videoendoscope Set 3.0 x 51.5**, CMOS technology, deflection up/down 140°/140°, direction of view 0°, angle of view 100°, working length 51.5 cm, total length 72 cm, distal tip outer diameter 2.85 mm
- 091361-06* **Flexible Intubation Videoendoscope 3.5 x 65**, sterile, for single use, package of 6, direction of view 0°, angle of view 90°, working length 65 cm, outer diameter 3.5 mm, working channel diameter 1.2 mm, deflection up/down 180°/180°

Optional Accessories

- UG803 **Subrack for COR Mobile Stand**, low, rides on 4 antistatic dual wheels, with locking brakes, low beam module incl. cable manager and handle
- UG804 **Subrack for COR Mobile Stand**, high, rides on 4 antistatic dual wheels, with locking brakes, high beam module incl. cable manager and handle, base module for COR mobile stand
- TP002 **Camera Head Holder**, for use with TELE PACK+ TP101
- TC010 **Two-Pedal Footswitch USB**, for use with IMAGE1 CONNECT® TC200, TELE PACK+ TP101
- 20040240EN** **USB Silicone Keyboard**, with US English character set, USB plug, with touchpad
- 20040282 **USB Flash Drive**, 32 GB, for use with IMAGE1 S CONNECT®, IMAGE1 ICM, TECHNO PACK® X/Xe, TECHNO PACK® T LED, all TELE PACK X and TELE PACK X LED models and the C-MAC® monitor

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

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- 549M **USB Color Printer**, power supply 100-240 VAC, 50/60 Hz, including mains cord, for use with IMAGE1 S™, IMAGE1 ICM from software version 470206-328BI and AIDA® compact NEO
- W21341 **OR1™ Radio Microphone Headset**, for W21346-XXX or similar for use with OR1™ Bodypack Transmitters W21346-061, W21346-062, W21346-063 as well as TELE PACK X LED and TELE PACK+

Accessories for Stroboscopy

- 40160033 **TELE PACK Stroboscopy Footswitch**, with USB port and integrated activation key for stroboscopy function (plug & play), for use with KARL STORZ TELE PACK X LED TP100, TELE PACK+ TP101
- 40160031 **Microphone Set**, for use with KARL STORZ TELE PACK X LED TP100 including:
Microphone Fitting
Microphone Holder
Connector for Microphone Membrane

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

75 Years

*Shaping the Future
of Endoscopy with you*

STORZ
KARL STORZ — ENDOSKOPE

THE DIAMOND STANDARD

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