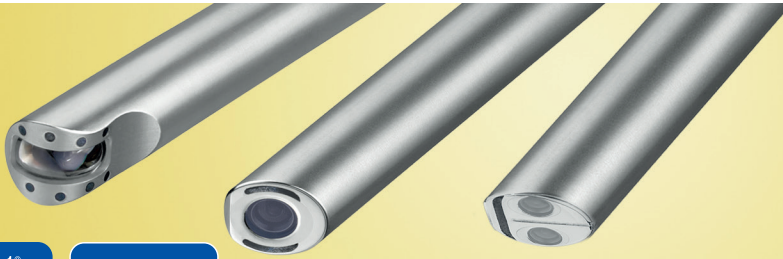


KARL STORZ Telescopes



KARL STORZ HOPKINS® Telescopes: Quality – Value Preservation – Reliability



The KARL STORZ HOPKINS® rod lens system retains its impressive image quality with every new telescope. With over 75 years of experience, the name KARL STORZ is synonymous with high quality standards.

The innovative technologies from KARL STORZ

- Quality improvements of the KARL STORZ telescopes through the continuous optimization of manufacturing processes and use of innovative materials.
- Optimized the optical system with state-of-the-art manufacturing technologies.



Conventional KARL STORZ HOPKINS® telescopes can be used with all camera platforms, whether HD, 4K or future advancements to optimize workflow.

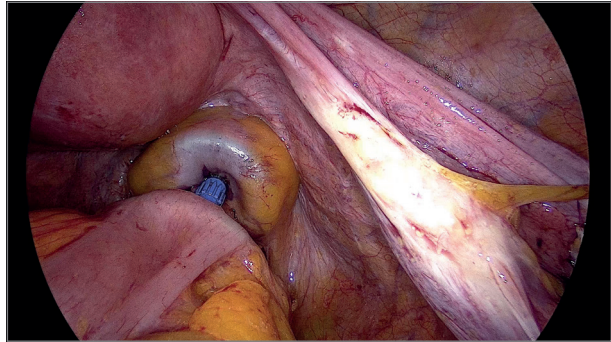
Quality and service pay off:

The KARL STORZ repair-exchange program creates a closed service cycle: Replacement by original products preserves the long-term value of your investments at repair prices.

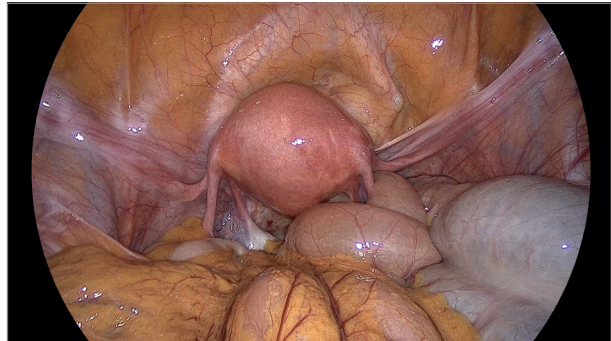
Application Images from KARL STORZ HOPKINS® Telescopes

- Illumination and depth of field of an intraabdominal operative field while viewing tissue, e.g., in diagnostic laparoscopy.
- Sharpness of detail while performing anastomoses such as, for example, colonic anastomoses, esophageal anastomoses and gastric bypass anastomoses.

Prof. Dr. Martin Walz,
Kliniken Essen Mitte, Germany



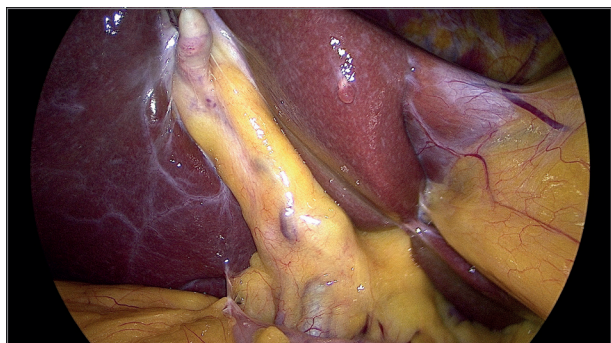
Prof. Dr. med. Ralf Rothmund,
Lindenhofhospital, Berne,
Switzerland



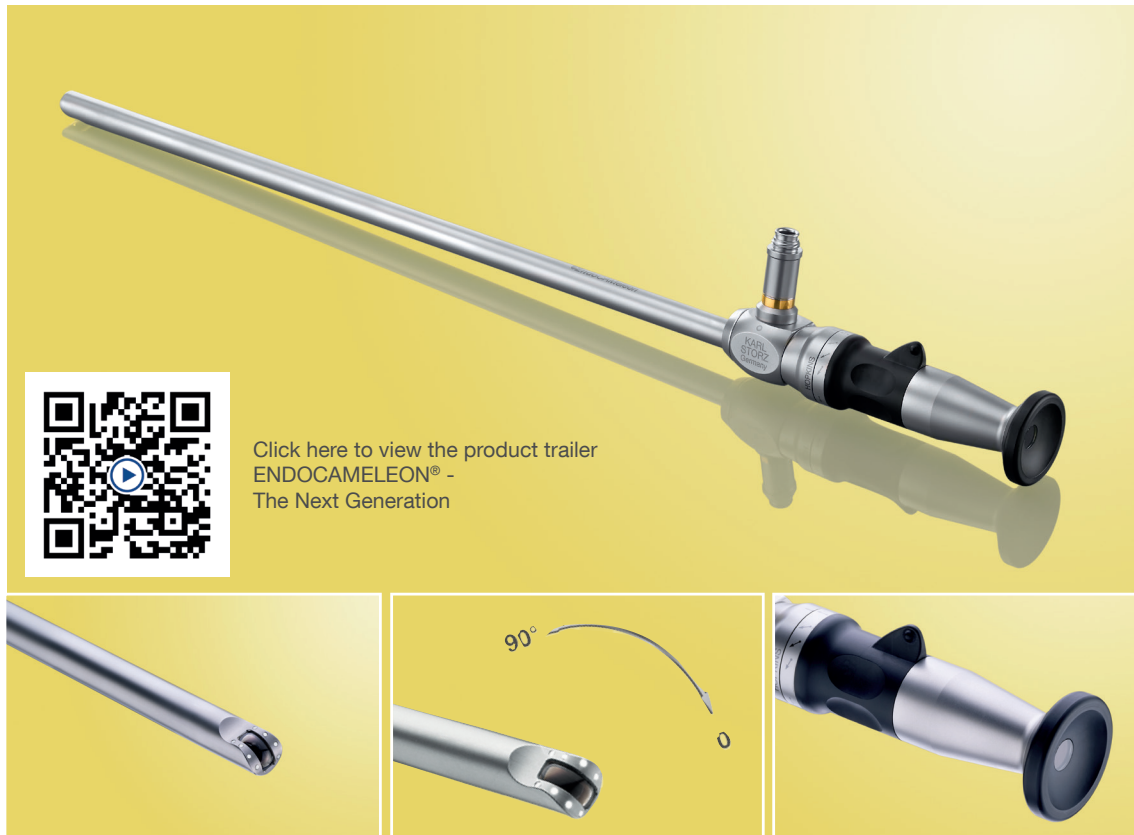
Prof. Dr. med. Ralf Rothmund,
Lindenhofhospital, Berne,
Switzerland



Prof. Dr. Martin Walz,
Kliniken Essen Mitte, Germany



EndoCAMEleon®: One scope. Variable views.



Click here to view the product trailer
ENDOCAMELEON® -
The Next Generation

The ENDOCAMELEON® provides surgeons with a great deal of flexibility and overcomes the limitations that are traditionally associated with rigid telescopes. The viewing direction of the ENDOCAMELEON® can be variably adjusted between 0° and 90°. This allows visualization of areas that are difficult to access with standard telescopes. Ergonomics and handling are the same as a conventional KARL STORZ HOPKINS® telescope.

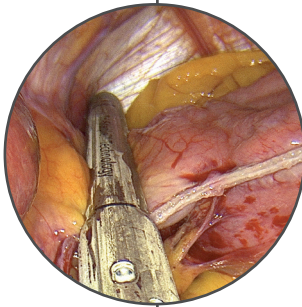
The ENDOCAMELEON® helps streamline your assets by allowing multiple angles in one scope with 4K. Due to its design you can change direction by simply turning the control wheel and it does not require additional intracorporeal space.

ENDOCAMELEON®

- Particularly suitable for use in anatomically narrow working spaces
- Easy-to-use control wheel for setting the desired direction of view for the visualization of various anatomical structures, without changing the trocar
- Ideally suited for use with the IMAGE1 S™ 4U camera system

ENDOCAMELEON® Application Images

General and Visceral Surgery

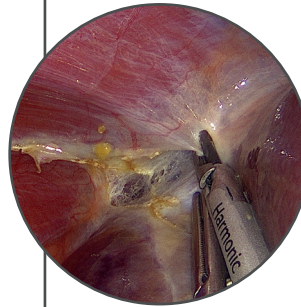


Bariatric Surgery

Sleeve gastrectomy

- Complete visualization of the gastroesophageal junction
- 45° – 90°

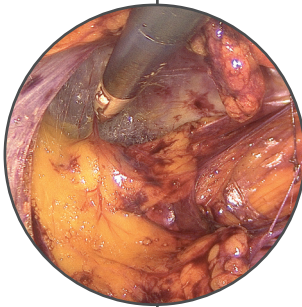
Prof. Carus, Germany



Liver Segment Resection

- Better visualization of the postero-superior segments of the liver
- 45°

Prof. Abu Hilal, Italy

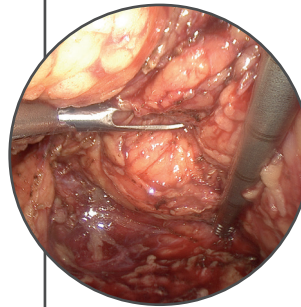


Hernia Surgery

TEP

- Complete visualization of the hernial sac
- 45°

Prof. Boni, Italy



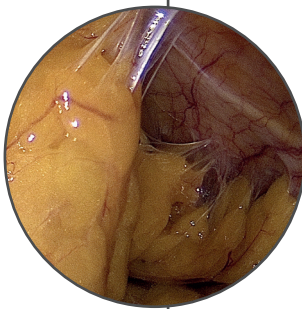
Colorectal Surgery

Rectum resection

- Complete visualization of the anastomosis
- 30° – 90°

Dr. Kanehira, Japan

Gynecology

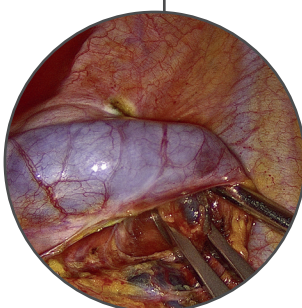


Adnectomy

- Better visualization of various adhesions for easier adhesiolysis
- 90°

Dr. Wojdat, Germany

Thoracic Surgery



VATS Lobectomy

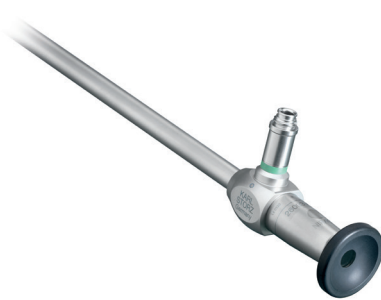
- Better visualization during lymph node resection
- 45°

Dr. Kugler, Germany

HOPKINS® Rubina™ NIR/ICG Telescopes – IMAGE1 S™ 4U Rubina™

The new Rubina NIR/ICG has been optimized for two light spectra, near infrared (NIR/ICG Mode) and white light (WL Mode). The focal points of the new KARL STORZ Rubina™ optics are aligned, eliminating the need for refocusing when switching between WL and NIR modes. Another distinct benefit is the edge-to-edge clarity and enhanced illumination of the surgical field.

Designed specifically for the Rubina 4U camera system, it provides three new imaging modalities: Overlay, Monochromatic, and Intensity Mapping.



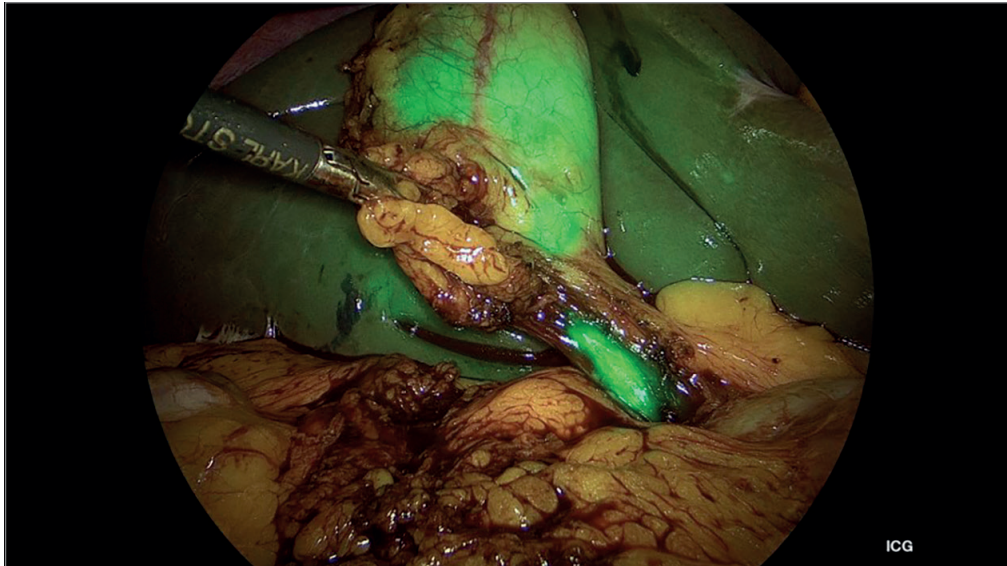
- Optimized illumination of the operative field
- No refocusing required when switching between the white light and NIR modes
- Portfolio includes a selection of viewing angles 0°, 30°, 45° and sizes 4 mm, 5 mm, and 10 mm.



Click here to view the application video
for the new HOPKINS® Rubina™ NIR/ICG
telescopes.

Fluorescence Imaging with the New HOPKINS® Rubina™ NIR/ICG Telescopes

Visualization of the gallbladder and the bile ducts

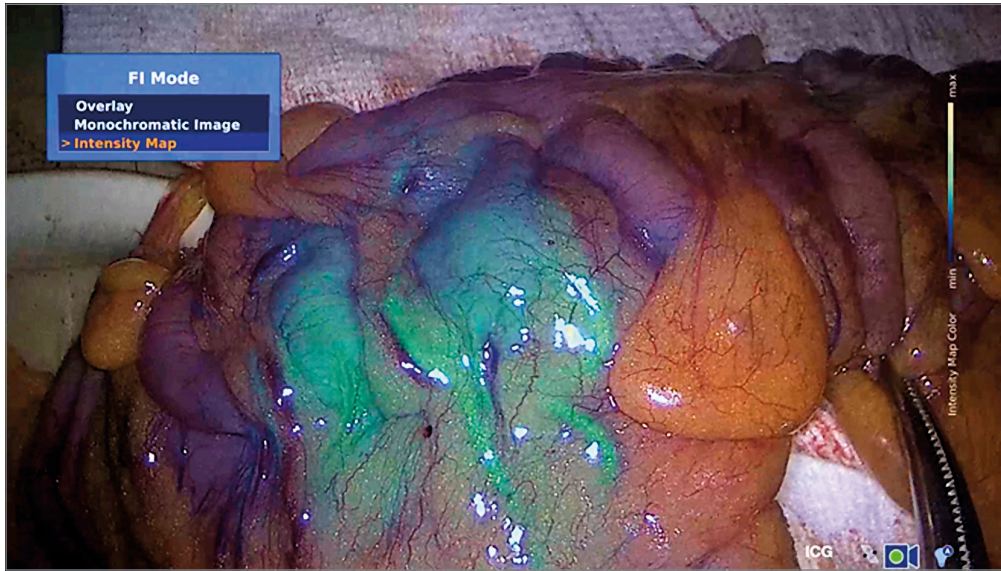


Prof. Luigi Boni, IRCCS - Ca' Granda, Policlinico Hospital, University of Milan, Milan, Italy

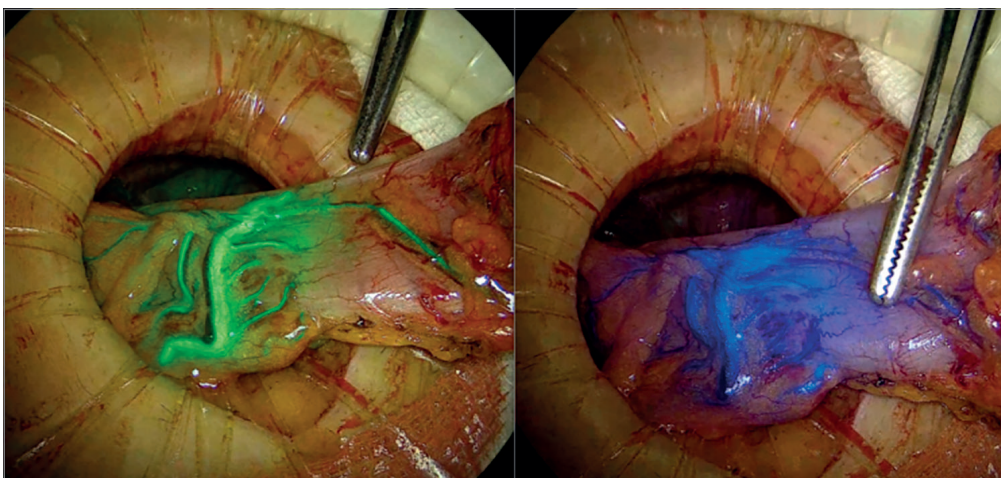
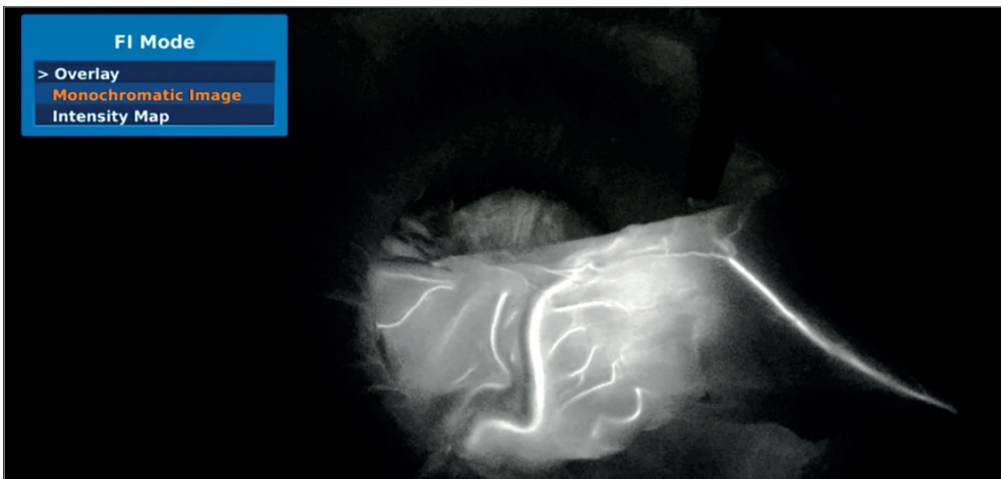


Prof. Salvador Morales Conde, Quirónsalud Sagrado Corazón Hospital, Seville, Spain

Visualization of perfusion, e.g., colorectal anastomoses

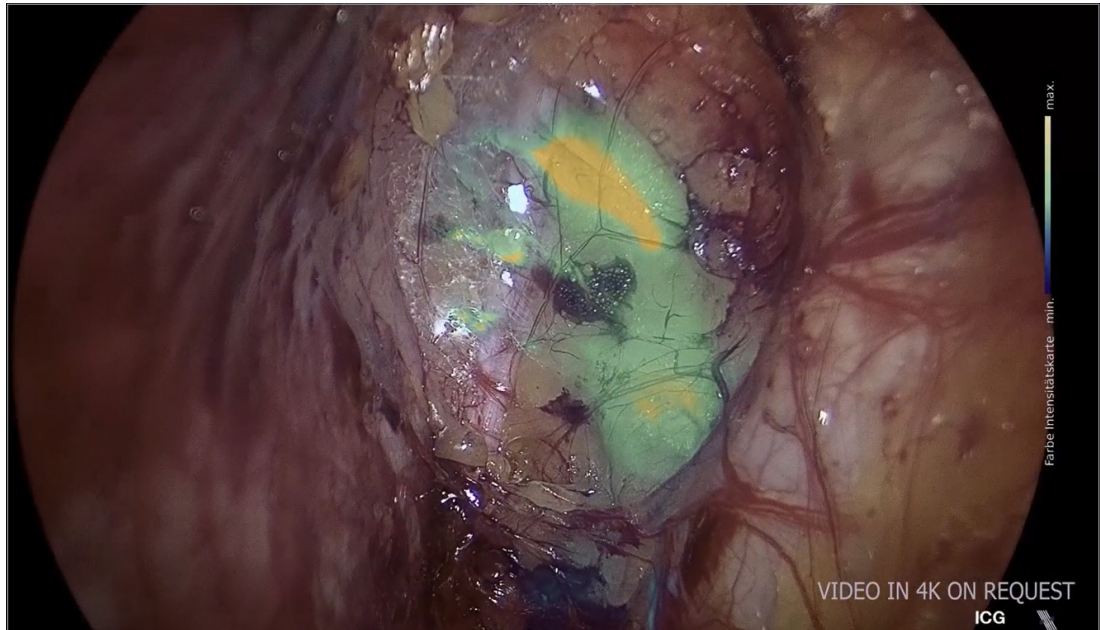


Prof. Salvador Morales Conde, Quirónsalud Sagrado Corazón Hospital, Seville, Spain



Prof. Luigi Boni, IRCCS - Ca' Granda, Policlinico Hospital, University of Milan, Milan, Italy

Visualization of the Lymphatic system



Michael Mueller, MD University Hospital Bern Bern, Switzerland

White Light Telescopes:

HOPKINS® Telescopes, diameter 3.3 mm, length 25 cm

- 26007AA **HOPKINS® Straight Forward Telescope 0°**, enlarged view, diameter 3.3 mm, length 25 cm, autoclavable, fiber optic light transmission incorporated, color code: green
- 26007BA **HOPKINS® Forward-Oblique Telescope 30°**, enlarged view, diameter 3.3 mm, length 25 cm, autoclavable, fiber optic light transmission incorporated, color code: red

HOPKINS® Telescopes, diameter 5 mm, length 24 cm

- 26011AA **HOPKINS® Straight Forward Telescope 0°**, enlarged view, diameter 5 mm, length 24 cm, autoclavable, fiber optic light transmission incorporated, color code: green
- 26011BA **HOPKINS® Forward-Oblique Telescope 30°**, enlarged view, diameter 5 mm, length 24 cm, autoclavable, fiber optic light transmission incorporated, color code: red

HOPKINS® Telescopes, diameter 5 mm, length 29 cm

- 26046AA **HOPKINS® Straight Forward Telescope 0°**, enlarged view, diameter 5 mm, length 29 cm, autoclavable, fiber optic light transmission incorporated, color code: green
- 26046BA **HOPKINS® Forward-Oblique Telescope 30°**, diameter 5 mm, length 29 cm, autoclavable, fiber optic light transmission incorporated, color code: red
- 26046FA **HOPKINS® Telescope 45°**, enlarged view, diameter 5 mm, length 29 cm, autoclavable, fiber optic light transmission incorporated, color code: black

HOPKINS® Telescopes, diameter 5.5 mm, length 50 cm

- 26048ASA **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 50 cm, autoclavable, light connection offset by 180° and angled 45°
- 26048BSA **HOPKINS® Telescope 30°**, diameter 5.5 mm, length 50 cm, autoclavable, post offset by 180° and angled 45°
- 26048FSA **HOPKINS® Telescope 45°**, diameter 5.5 mm, length 50 cm, autoclavable, and angled 45°

HOPKINS® Telescopes, diameter 10 mm, length 31 cm

- 26003AA **HOPKINS® Straight Forward Telescope 0°**, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: green
- 26003BA **HOPKINS® Forward-Oblique Telescope 30°**, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: red
- 26003FA **HOPKINS® Telescope 45°**, enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated, color code: black

HOPKINS® Telescopes, diameter 10 mm, length 42 cm

Recommended for surgery on obese patients

- 26003AEA **HOPKINS® Straight Forward Telescope 0°**, enlarged view, diameter 10 mm, length 42 cm, autoclavable, fiber optic light transmission incorporated, color code: green
- 26003BEA **HOPKINS® Forward-Oblique Telescope 30°**, enlarged view, diameter 10 mm, length 42 cm, autoclavable, fiber optic light transmission incorporated, color code: red
- 26003FEA **HOPKINS® Telescope 45°**, enlarged view, diameter 10 mm, length 42 cm, autoclavable, fiber optic light transmission incorporated, color code: black

ENDOCAMELEON®:

- 26003EC **ENDOCAMELEON® HOPKINS® Telescope**, diameter 10 mm, length 31 cm, autoclavable, variable direction of view 0°-90°, with adjustment knob with fin for selecting the direction of view, fiber optic light transmission incorporated, color code: gold

NIR/ICG Telescopes:

| | |
|-------------|---|
| 26003ARA | HOPKINS® RUBINA™ 0° , NIR/ICG, diameter 10 mm, straight-forward telescope 0°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: green |
| 26003BRA | HOPKINS® RUBINA™ 30° , NIR/ICG, diameter 10 mm, forward-oblique telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: red |
| 26003FRA | HOPKINS® RUBINA™ 45° , NIR/ICG, diameter 10 mm, forward-oblique telescope 45°, enlarged view, diameter 10 mm, length 31 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: black |
| 26003FREA | Same , length 42 cm |
| 26046ARA | HOPKINS® RUBINA™ 0° , NIR/ICG, diameter 5 mm, straight-forward telescope 0°, enlarged view, diameter 5 mm, length 29 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: green |
| 26046BRA | HOPKINS® RUBINA™ 30° , NIR/ICG, diameter 5 mm, forward-oblique telescope 30°, enlarged view, diameter 5 mm, length 29 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: red |
| 26046FRA | HOPKINS® RUBINA™ 45° , NIR/ICG, diameter 5 mm, forward-oblique telescope 45°, enlarged view, diameter 5 mm, length 29 cm, autoclavable, for indocyanine green (ICG), fiber optic light transmission incorporated, color code: black |
| 28164AC | HOPKINS® Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 18 cm, autoclavable, for indocyanine green (ICG) |
| 28164BC | HOPKINS® Straight Forward Telescope 30° , enlarged view, diameter 4 mm, length 18 cm, autoclavable, for indocyanine green (ICG) fiber optic light transmission incorporated, color code: red |
| 28164FC | HOPKINS® Forward-oblique Telescope 45° , enlarged view, diameter 4 mm, length 18 cm, autoclavable, for indocyanine green (ICG) |
| 20916025AGA | VITOM® II NIR/ICG Telescope 0° , with integrated illuminator and observation filter for fluorescence diagnostics with ICG, HOPKINS® telescope, 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 |



IMAGE1 S™ 4U Rubina™ System Components

| | |
|---------|--|
| TC201US | IMAGE1 S CONNECT® II , connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-120 VAC/200-240 VAC, 50/60 Hz |
| TC304US | 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, S-Technologies available, progressive scan, low-temperature sterilization, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK |
| TL400 | Cold Light Fountain POWER LED RUBINA™ , with high-performance light unit for perfusion assessment and standard endoscopic diagnosis, including an LED and a KARL STORZ light cable connection, power supply 100-125/220-240 VAC, 50/60 Hz including: Mains Cord Patch Cable Sync Connecting Cable |
| UF101 | One-Pedal Footswitch , one-stage |
| TM340 | 32" 4K Monitor , screen resolution 3840 x 2150, image format 16:9, inputs: 12G-SDI, DP 1.2, HDMI, DVI-D |

Sterilization trays

| | |
|----------|---|
| 39301BS | Sterilization Tray for Cleaning and Storage of two rigid endoscopes , external dimensions (w x d x h): 17.56 x 3.48 x 1.56 mm, for rigid endoscopes up to diameter 5 mm and working length 35 cm |
| 39301CS | Sterilization Tray for Cleaning and Storage of two rigid endoscopes , external dimensions (w x d x h): 20 x 3 x 1.3 mm, for rigid endoscopes up to diameter 10 mm and working length 31 cm |
| 39301DS | Sterilization Tray for Cleaning and Storage of two rigid endoscopes , external dimensions (w x d x h): 26 x 3.9 x 2.75 mm, for rigid endoscopes up to diameter 5.5 mm and working length 53 cm |
| 39301C1S | Sterilization Tray for Cleaning and Storage of one rigid endoscope with lighting cable , external dimensions (w x d x h): 20 x 3 x 1.25 mm, for rigid endoscopes up to diameter 10 mm and working length 31 cm |

Light Cables

| | Light cable diameter | Endoscope diameter | | NIR/ICG compatibility |
|---|----------------------|--------------------|---|-----------------------|
|  | 3-3.5 mm | 3-6.5 mm | 495NL Fiber Optic Light Cable , diameter 3.5 mm, length 180 cm | - |
| | | | 495NA Fiber Optic Light Cable , diameter 3.5 mm, length 230 cm | - |
| | | | 495NAC Fiber Optic Light Cable , extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm | ✓ |
| | | | 495ND Fiber Optic Light Cable , diameter 3.5 mm, length 300 cm | - |
|  | 4.8-5 mm | 10-11 mm | 495NB Fiber Optic Light Cable , diameter 4.8 mm, length 180 cm | - |
| | | | 495NCS Fiber Optic Light Cable , extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 250 cm | - |
| | | | 495NCSC Fiber Optic Light Cable , extremely heat-resistant, with safety lock, enhanced light transmission, diameter 4.8 mm, length 250 cm | ✓ |
| | | | 495NE Fiber Optic Light Cable , diameter 4.8 mm, length 300 cm | - |
| | | | 495TIP Fiber Optic Light Cable , with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm | - |

Notes

A large grid of graph paper consisting of 30 columns and 30 rows of small squares, intended for taking notes.

It is recommended to check the suitability of the product for the intended procedure prior to use.
Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

More than
75
Years

*Shaping the Future
of Endoscopy with you*

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Fax toll free: 800 321-1304 (US only)
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STORZ
KARL STORZ—ENDOSKOPE

THE DIAMOND STANDARD

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