

Highlights 2020

Microscopy





VITOM® 3D – 3D Visualization for Microsurgery and Open Surgery

The VITOM® 3D system provides many surgical disciplines with a revolutionary solution for the visualization of microsurgical and open surgical interventions.

Application possibilities are similar to that of the operating microscope. The most important functions are controlled via the IMAGE1 PILOT, which is mounted on the OR table in the direct vicinity of the surgeon.

- Smaller, lighter and more compact than an operating microscope
- Lower acquisition costs and creates synergistic effects with endoscopy by using the same video tower – thus combining the benefits of endoscopy and microscopy
- Ergonomic work – the user is not confined to the eyepiece
- Improved workflow – the OR team can view the procedure in the same image quality as the surgeon

Overview

VERSACRANE™ LIGHT Holding Arm



UR300

**VITOM® 3D
with integrated illuminator**



TH200

**Sterile Cover for
VITOM® 3D**



TH001*

Fiber Optic Light Cables



495VIT

**IMAGE1 PILOT
IMAGE1 PILOT Sterile Cover**



TC014
041150-20*

IMAGE1 S™ Camera System



TC201
TC302

Cold Light Fountain POWER LED 300 SCB



TL300

Holding Arm, for IMAGE1 PILOT



28272HB
28172HR

3D Monitors



TM350, TM330

**3D Polarization Glasses,
3D Clip-on Glasses**



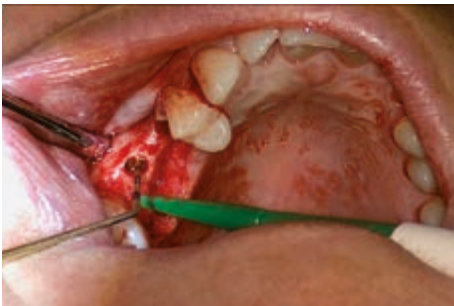
TM003
9800C

VITOM® 3D – Potential Applications

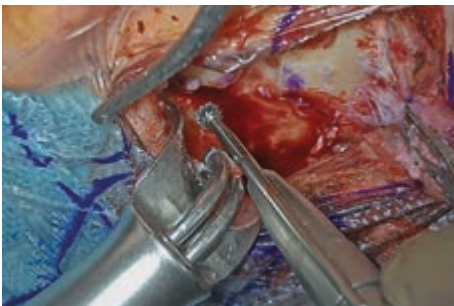
The VITOM® 3D was specifically developed for the classic applications of surgical microscopes (neurosurgery, ENT, spine surgery, hand surgery, and plastic surgery). Furthermore, it can be used in classic open surgery.



NEUROSURGERY, e.g. tumor biopsy, tumor resection, nerve decompression, intracranial bleeding, vascular surgery



ORAL AND MAXILLOFACIAL SURGERY, e.g. dysgnathia surgery, flap plasty, orbital surgery



ENT, e.g. tumor resection, tympanoplasty, laryngeal surgery, adenotomy, blepharoplasty, septoplasty, open rhinoplasty, thyroplasty, thyroidectomy, eardrum paracentesis, tympanostomy tubes, cochlear implants



CARDIAC SURGERY, e.g. mitral valve surgery, pediatric cardiac surgery

Potential applications range from the visualization of the surgical field to documentation and training. The VITOM® 3D is supported by the IMAGE1 S™ camera platform and therefore offers all functions and advantages such as the S-Technologies CLARA, CHROMA, and SPECTRA* in 2D and 3D.



GYNECOLOGY, e.g. colposcopy, conization



HAND SURGERY and PLASTIC SURGERY,
e.g. reconstructive surgery, median nerve neurolysis,
Dupuytren's contracture, ulnar shortening osteotomy,
ulnar head prosthesis, arthroplasty, ganglion resection,
correction of trigger finger and mallet finger, four-corner
arthrodesis



SPINE SURGERY, e.g. herniated disks, spinal stenoses,
spondylodeses, vertebral fracture



PEDIATRICS, e.g. hypospadias, anorectal malformation,
atrial septal defect

VITOM® 3D – 3D visualization for microsurgery and open surgery



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

IMAGE1 PILOT is required for the use of VITOM® 3D.
VITOM® 3D and IMAGE1 PILOT are always used with a holding system.
Please note that special clamping jaws are required to mount VITOM® 3D to the holding system.

Specifications:

Image sensor	2-chip, 4K
Zoom	infinitely variable
Working distance (WD)	20-50 cm
Magnification (WD 30 cm with 32" 3D monitor)	approx. 8-30 x
Cleaning	wipe disinfection

VERSACRANE™ LIGHT holding system for the convenient positioning of VITOM® Telescopes



UR300

VERSACRANE™ LIGHT Holding Arm, mechanical mobile holding arm, with quick release coupling KSLOCK, for short-term, non-invasive and flexible positioning of VITOM® telescopes/exoscopes for open, microsurgical and minimally invasive surgery, for use with KARL STORZ clamping jaws and VITOM® telescopes/exoscopes

including:

Mobile Stand

Mechanical Friction Brake

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

Accessories



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



28272VTP **VITOM® 3D Clamping Jaw**, for POINT SETTER, with dovetail connector, for use with VITOM® 3D and POINT SETTER holding system



495VIT **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
Note: The 550 cm long Light Cable 495VIT is a necessary requirement for the VERSACRANE™.



TH001* **Cover**, for VITOM® 3D, sterile, for single use, package of 10



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



TH002 **VITOM® 3D Illuminator**, additional lighting for VITOM® 3D, with 1 adjustable lens, **autoclavable**, for use with VITOM® 3D and light cable



TH003 **Protective Cover**, for VITOM® 3D

Wire tray for reprocessing the VITOM® 3D illuminator



Set 2B
39502ZH **Wire Tray**, stackable, with hole place walls
39502LH **Lid**
39100SH **Silicone Grid Insert LARGE DIAMOND GRID**
39100PS **Fixation Pin**, package of 12
39360AS **Silicone Tie-downs**, package of 12

IMAGE1 PILOT with holding system for fixation to the operating table



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



28172HR

Rotation Socket, to clamp to the operating table, with one mounted Butterfly Nut 28172HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand



28272HB

Articulated Stand, reinforced version



04 1150-20*

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



Monitor



TM350 **32" 4K/3D Monitor**, color systems PAL/NTSC,
screen resolution 3840 x 2160, image format 16:9



TM330 **32" 3D Monitor**, color systems PAL/NTSC,
screen resolution 1920 x 1080, image format 16:9



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



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



TM003 **3D Polarization Glasses**, fogless, passive,
for use with 3D monitors



9800C **3D Clip-on Glasses**, circularly polarized



VERSACRANE™ LIGHT Holding System – for the Convenient Positioning of VITOM® Systems

- The VERSACRANE™ LIGHT is a versatile holding system that was specially designed for use with VITOM® telescopes. It enables easy and precise positioning of the VITOM® system for many specialties.
- Ready for immediate use – the VERSACRANE™ LIGHT holding arm is mounted on a mobile stand so that it can be quickly transported to the operating room and positioned before surgery.
- Individual adjustment – thanks to its gas-spring-supported arm, the VERSACRANE™ LIGHT holding arm offers weight compensation for the VITOM® system. The braking force of each joint can also be adjusted individually.
- Single hand use – an outstanding feature of the VERSACRANE™ LIGHT is its straightforward use. The VITOM® system can easily be positioned with one hand.
- Can be used with VITOM® 2D and 3D.

- UR300 **VERSACRANE™ LIGHT Holding Arm**, mechanical mobile holding arm, with quick release coupling KSLOCK, for short-term, non-invasive and flexible positioning of VITOM® telescopes/exoscopes for open, microsurgical and minimally invasive surgery, for use with KARL STORZ clamping jaws and VITOM® telescopes/exoscopes including:
Mobile Stand
Mechanical Friction Brake

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

Clamping Jaws and Accessories for VITOM® 3D

- 28272VTK **VITOM® 3D Clamping Jaw**, with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK
- TH001* **Cover**, for VITOM® 3D, sterile, for single use, package of 10 STERILE 
- TH003 **Protective Cover**, for VITOM® 3D

Clamping Jaws and Accessories for VITOM® 2D

- 28272UGK **Clamping Jaw**, with ball joint, large, clamping range 16.5-23 mm, with quick release coupling KSLOCK (male), for use with all square-headed HOPKINS® telescopes
- 28272CN **Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable**. The clamping cylinder allows vertical movement and rotation of the telescope.
- 041150-20* **Cover**, elasticated, 42 x 164 cm, sterile, for single use, package of 20, STERILE 
 for use with KARL STORZ holding systems and IMAGE1 PILOT



VITOM® ICG – Fluorescence Imaging in Open Surgery

VITOM® ICG from KARL STORZ offers a system for fluorescence imaging that can be used for both minimally invasive and open surgery. Only the telescope must be exchanged, depending on the application. This makes the system particularly flexible and economical. High-quality visualization under white light is naturally also a feature of VITOM® ICG telescopes.

- Perfusion assessment
- Visualization of sentinel lymph nodes
- Compatible with the IMAGE1 S™ camera platform

Telescope

- 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

Holding System

- 28272CN **Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable**. The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28272UGN/UGK and POINT SETTER universal adaptor 10-15 mm.
- 28272UGK **Clamping Jaw**, with ball joint, large, clamping range 16.5 to 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed KARL STORZ HOPKINS® telescopes
- 28272HC **Articulated Stand**, L-shaped, long, reinforced version, especially large swivel range, with one mechanical central clamp for all five joint functions, height 48 cm, swivel range 66 cm, with quick release coupling KSLOCK (female)
- 28172HR **Rotation Socket**, to clamp to the operating table, with one mounted Butterfly Nut 28172HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

Camera System

- TC201EN* **IMAGE1 S CONNECT® II**, connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
- 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
- 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™ and IMAGE 1 HUB™ HD/IMAGE1 HD
- TM220 **27" FULL HD Monitor**, screen resolution 1920 x 1080, image format 16:9

Light Source and Light Cables

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

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



ARTIP Cruise™ – The High-End Holding System for VITOM® 3D

With the new ARTIP CRUISE™, the portfolio for the VITOM® 3D system has been expanded to include a motorized, steerable holding arm.

- ARTIP CRUISE™ allows easy and fast positioning of the VITOM® 3D system for open and microsurgical procedures in various specialties.
- The holding arm and the IMAGE1 S™ camera are controlled by the IMAGE1 PILOT control unit. Direct communication between the two systems enables precise positioning.
- The convenient pivot function allows the user to view a specific anatomical structure from all perspectives. VITOM® 3D can be easily moved around the focal point.
- Users can save their preferred position and retrieve it at a later date. This is helpful for use in combination with endoscopes.
- Predefined start positions ensure an easy and fast setup of the system.

ARTIP CRUISE™:

- UR501B **ARTIP CRUISE™ Set**, motorized holding arm, for short-term flexible positioning and dynamic movement of compatible KARL STORZ units during open, microsurgical and minimally invasive procedures, independent of selected instrument adaptor, voltage range 230 V including:
VITOM® 3D Adaptor, for ARTIP CRUISE™
- UR501C **Same**, voltage range 110 V

Camera System:

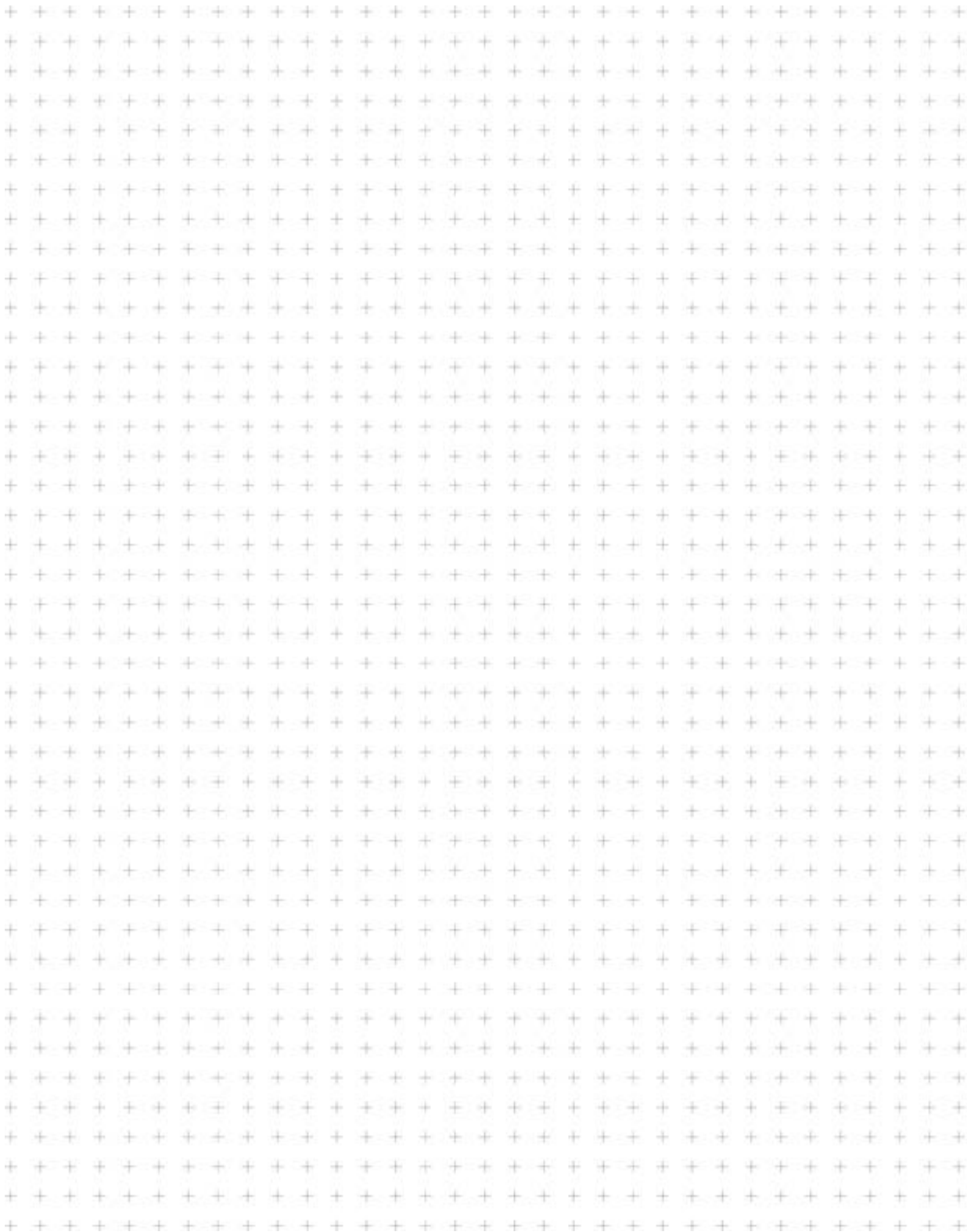
- TC201EN** **IMAGE1 S CONNECT® II**, connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
- TC302 **IMAGE1 S D3-LINK®**, link module, for use with TIPCAM®1 S 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz
- TL300 **Cold Light Fountain POWER LED 300**, with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100-240 VAC, 50/60 Hz
- 495VIT **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm
- TM330 **32" 3D Monitor**
- TM350 **32" 4K/3D Monitor**
- TM450 **55" 4K/3D Monitor**
- TM003 **3D Polarization Glasses**
- 9800C **3D Clip-on Glasses**

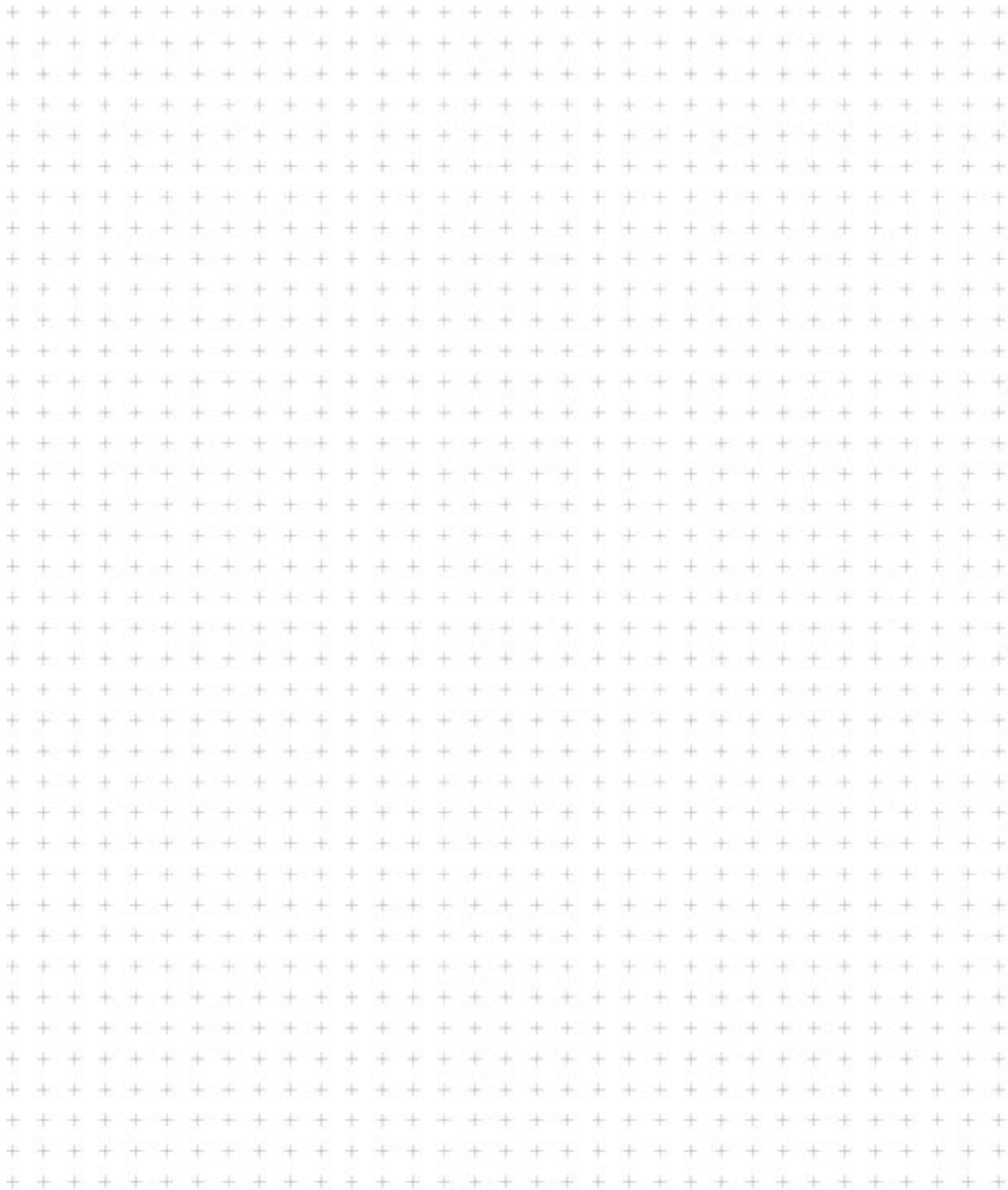
VITOM® 3D:

- 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
- TH001* **Cover**, for VITOM® 3D, sterile, for single use, package of 10 STERILE 
- TC014 **IMAGE1 PILOT**, control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units
- 28272HB **Articulated Stand**, L-shaped
- 28172HR **Rotation Socket**, to clamp to the operating table
- 041150-20* **Cover**, with elasticated tip, 42 x 177 cm, sterile, for single use, package of 20 STERILE 



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





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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