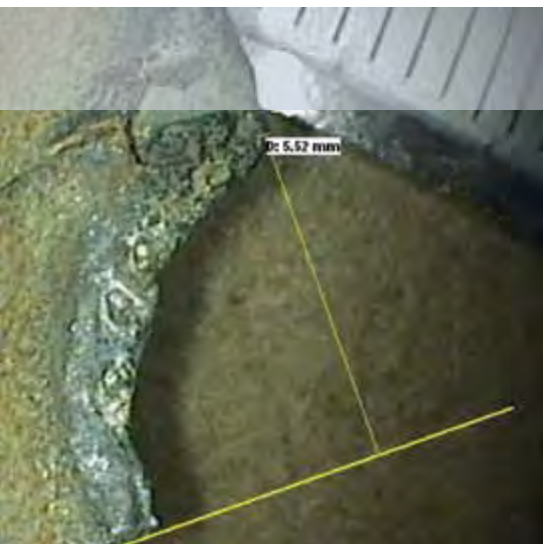
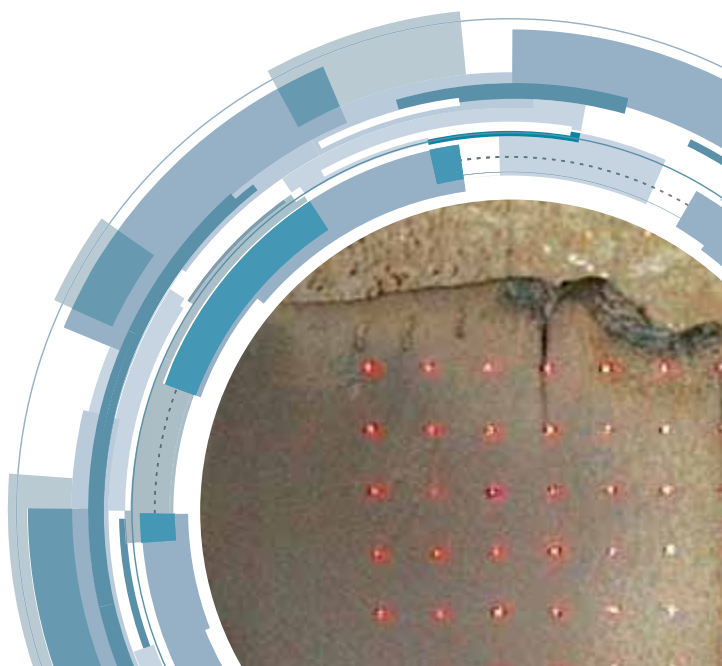


Measurement Systems and Documentation

The TECHNO PACK® family and cameras



STORZ
KARL STORZ — ENDOSKOPE
INDUSTRIAL GROUP



Mobile documentation

KARL STORZ TECHNO PACK®



Our documentation systems from the TECHNO PACK® product family are very versatile. The compact units feature all necessary functions required for the professional use of endoscopes. The devices are universally usable as portable or stationary units. They store the generated data, display images on a monitor, and measure any identified damage.

TECHNO PACK® devices feature brilliant image quality displayed on large 6.4", 12", or 15" monitors, a powerful light source, full screen display, and the outstanding MULTIPOINT measuring system, which offers optimal measuring accuracy from any videoscope position and on any surface. In addition, the TECHNO PACK® is compatible with the entire product range, rendering it universally usable.

Handling is straightforward, which minimizes the required training. KARL STORZ offers onsite training anywhere in the world.

All endoscopically generated images can be easily documented. The endoscopic images can then be transferred to a USB stick, directly to your computer, or onto an external monitor, as desired.

Definition: The TECHNO PACK® is a documentation unit for storing images and videos; some versions can additionally be used to measure objects and surfaces.



Special features:

- Optimally harmonized systems
- Brilliant images in full screen display
- Multi-hour video capacity
- MULTIPPOINT measuring system
- Accurate measuring from any position and on any surface
- User-friendly operation
- Compatibility with the entire product range
- World-wide customer service

TECHNO PACK® T



The TECHNO PACK® T is the successor model of the TECHNO PACK® X. It features a larger 15" monitor and excellent image quality as well as a practical, modern design.

The TECHNO PACK® T is more compact and hence even easier to transport than its predecessor.

In conjunction with the telescope and camera, the LED light source (future version; currently 50W arc lamp) ensures an outstanding image.

All generated images can be archived. In addition, any country-specific keyboard can be connected via one of the six USB ports.

The TECHNO PACK® T stands for flexibility and quality in all fields.

Full screen display

- Large 15" LCD monitor, 24-bit color depth for greater detail
- Maximum resolution of 1024 x 768 (XGA) for sharp and clear images

Illumination

- 50 Watt high performance light source for greater brightness

Image editing

- Compatible with all TELECAM camera heads and videoscopes (MULTIPOINT measurement function in planning)

Documentation

- Storage of images, videos, and audio files on a USB stick or SD card

Compatibility

- 6 x USB and 1 x SD card port
- DVI-D digital video input and output

Your advantages:

- Large 15" monitor (1024x768 pixels)
- Display brightness: 400 cd/m²
- Strong light source
- Brilliant image
- Compact, modern design
- Universal power supply, usable world-wide
- Connection for country-specific keyboard



81 0450 01* **TECHNO PACK® T, Set**, endoscopic video unit for use with all KARL STORZ one-chip camera heads and video endoscopes, incl. 50 W Arc light source, 15" LCD monitor, USB/SD memory module, color systems PAL/NTSC, with integrated digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz, dimensions: (w x h x d): 450 x 320 x 170 mm, weight: 6.95 kg including:

TECHNO PACK® T, basic unit
KARL STORZ USB Flash Drive, 4 GB
Instruction Manual
Case

* Further country-specific mains cords available on request.

Accessories



20 2120 30 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



20 0402 80 KARL STORZ USB Flash Drive, 4 GB



81 1310 21 Spare Lamp, 50 W, for use with TELE PACK X, Techno Arc 60, TECHNO PACK® II, TECHNO PACK® Xe / T and PORTABLE PACK DIGITAL

TECHNO PACK® Xe



Our complete digital documentation unit is suitable for various applications in-house or in the field. Thanks to its storage and transport case, the TECHNO PACK® Xe is portable and can be easily used worldwide. It also works as a table-top version.

The device is compatible with the entire product range, and in conjunction with the **MULTIPOINT measuring system**, it provides accurate measurements from any position and on any surface.

The TECHNO PACK® Xe saves you a great deal of time since the videoscope's interchangeable lenses act as both viewing **and** measuring lenses.

In addition, you can inspect the high quality images in full screen view on a large 12" monitor, so that every detail becomes visible.

Special features:

- Video streaming and audio memory with more than three hours of recording directly onto the 80 GB hard drive
- User friendly measuring system for depth, height, length, area, and line-to-point measurements in full screen view
- Broad range of documentation options
- Powerful 50 Watt arc light source with manual brightness control
- Compatible with all KARL STORZ products
- World-wide customer service

Monitor: 12" TFT flat panel display, 800 x 600 pixels,
display brightness: 1000 cd/m²
Illumination: Manual or automatic infinite adjustment
Light source: 50 W arc lamp
Power supply: Universal power supply
Connections: VGA signal at 15-pin D-SUB connector,
S-Video Y/C signal input at 4-pin
Mini-DIN connector, 2 USB ports



81 0480 01-05* TECHNO PACK® Xe, table version
including:

TECHNO PACK® Xe, basic unit
KARL STORZ USB Flash Drive, 4 GB
Mains Cord, 300 cm (Schuko)
Mains Cord, 250 cm (US)
 Carrying Case



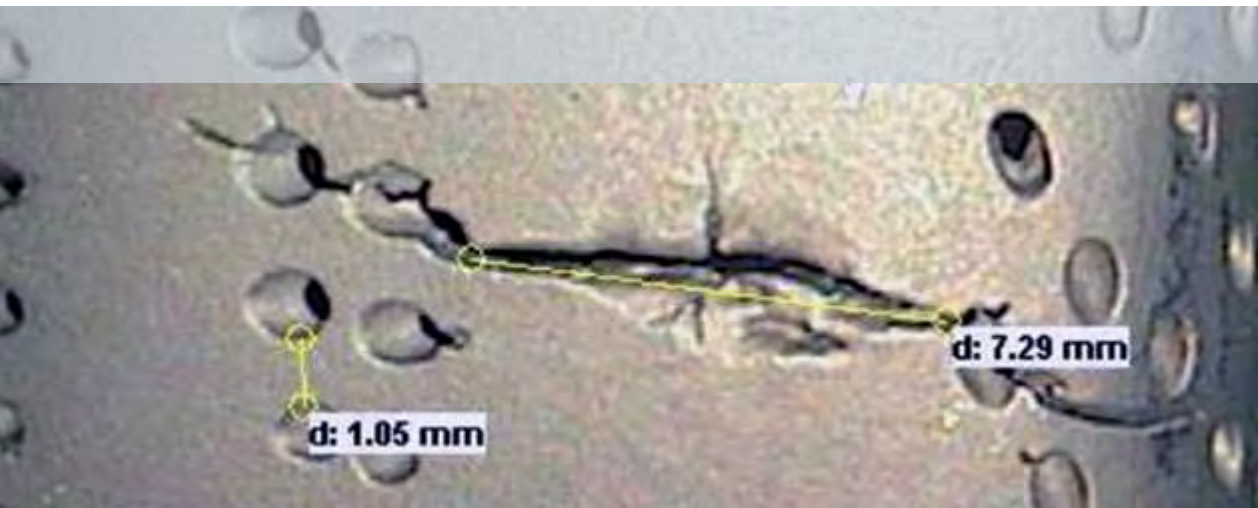
81 0480 05-05* TECHNO PACK® Xe - System Case, 230 V,
including:

TECHNO PACK® Xe, basic unit
12" TFT Flat Screen
KARL STORZ USB Flash Drive, 4 GB
Mains Cord, 300 cm (Schuko)
System Case, for TECHNO PACK® Xe

81 0481 05-05* Same, 110 V

*Further country-specific mains cords available on request

MULTIPOINT measuring system



The MULTIPOINT measuring system features nearly 100% measuring accuracy from any videoscope position.

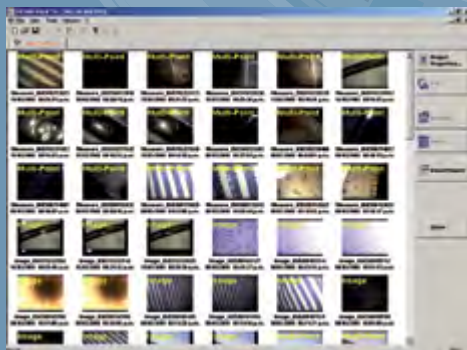
It is faster and easier to use than conventional endoscopic measuring methods.

With the MULTIPOINT measuring procedure, the site to be measured can be marked and then measured immediately.

Advantages:

- Visual inspection and measuring with a single lens: No lens interchange requiring the measured site to be found once more
- Precise height measurement
- Highly accurate measuring from any position and on any surface
- Full screen function: 100% screen resolution of the measured image, measuring results to the 1/100 mm range in the full screen image
- No quality loss when storing
- Easy operation, minimal training required

Desktop software



The TECHNO PACK® X Desktop Software enables the further processing of standard and measured images and the viewing of videos.

With the file manager, all projects and files can be opened and files can be moved, documented, re-measured, and archived. An Internet or Ethernet cable enables viewing live images directly from the TECHNO PACK® X/Xe and generating still images or videos.

81 0480 60-03

TECHNO PACK® X Desktop Software, compatible with CMOS video endoscope, Version: 1.19.1.2, Windows XP SP2 (Home and Professional Editions) or Microsoft® Windows® Vista (Business, Enterprise or Ultimate), Windows 7 (Professional or Ultimate), Pentium 4, 1200 MHz or higher, RAM min 512 MByte, Graphic Device: DirectX 9.0c, Compatible, min. VGA 1024x768, Option: Audio-Device

Accessories



80405 CLICK **CLICK4MOVE™ Flat Screen 7"**, high-resolution 800 x 600 VGA flat screen, for connection to TECHNO PACK® X/Xe and all CLICK4MOVE™ video endoscope types, tripod socket for Stand 80600, TENAX button for Carrying Strap 80404 G, automatic closing mechanism, display closure (on/off), sheath "parking" function for all video endoscope sheaths and 2 m connecting cable



80404 G **Carrying Strap for VIDEOSCOPE**, for VOX00 H or direct attachment to the VIDEOSCOPE, length 1.20 m, adjustable



80405 VGA **VGA Flat Screen 7"**, high-resolution 800 X 600 VGA flat screen, for connection to TECHNO PACK® II/X/Xe and with VIDEOSCOPE adaptor, including cable, length 2 m and tripod socket



81 0430 30 **TECHNO PACK® II/X/Xe Battery Unit**, NiMH, with integrated battery charger.



81 0480 55 Rucksack, for TECHNO PACK® II/X/Xe



20 2040 83 DVD-R, 4.7 GB, package of 10, for TECHNO PACK® X



20 0402 80 KARL STORZ USB Flash Drive, 4 GB

Accessories



81 0480 41 Wireless Keyboard and Mouse,
for TECHNO PACK® X/Xe Genius Luxe Mate Pro



80138 H6 Storage Case, for VIDEOSCOPE,
538 x 406 x 211 mm (w x d x h), Maibach TKZ,
black, M-2600-00000-M-18-xxxx.
For TECHNO PACK X® and VIDEOSCOPE



81 1310 21 Spare Lamp, 50 W, for use with
TELE PACK® X, TECHNO ARC 60,
TECHNO PACK® II, TECHNO PACK® X/Xe, and
Portable Pack Digital



400 FGBA Adaptor, Schuko to GB-Norm plug



81 0101 71

Potential Equalization Cable, one side with POAG plug, other side with battery clamp, length 10 m



2027690

Mains Fuse, 100 – 240 VAC, T 4.0 AL (SB), package of 10



400 FGB

Mains Cord, with a 90° angle mains plug and straight connector, length 300 cm, GB plug

80405 K5

Extension Cable, length 5 m, for connection to 80405 VGA and TECHNO PACK® X/Xe

Documentation



In many fields of industrial endoscopy, the documentation of generated test results is now indispensable.

For this important part of maintenance and service, KARL STORZ offers various options to meet your specific needs.

The products from our TECHNO PACK® family represent one documentation option.

Other documentation options are available through our TELECAM SL II as well as our TELECAM DX and the FULL HD camera systems. Function keys enable fast and ergonomic entries. The patented exposure control ensures maximum illumination and brilliant image quality. The lag-free adaptation to various lighting conditions reliably prevents overexposure and underexposure on the monitor. Once the TELECAM SL II is focused, users can zoom the lens as desired; the focus is automatically maintained.

Digital image processor module

Upon request, the TELECAM® SL II can be delivered with a digital image processor module that distinctly increases image quality even further. In connection with rigid endoscopes, the image processor provides digitally calculated contrast enhancement for improved image sharpness and detail.

For flexoscopes, the image processor optimizes the endoscopic image using a special electronic filter that reduces the number of pixels in the Moiré patterns and thereby largely eliminates them.



FULL HD camera systems

Thanks to innovative technology, these FULL HD camera systems support image display and recording in a 16:9 format, with a 1920 x 1080 pixel resolution in progressive scan (1080p). Images are stored in FULL HD quality.

Thanks to the C-MOUNT thread, the camera can be used with endoscopes, the VITOM® 25 system, and microscopes.

The robust HD camera is made of light anodized aluminum and stainless steel.

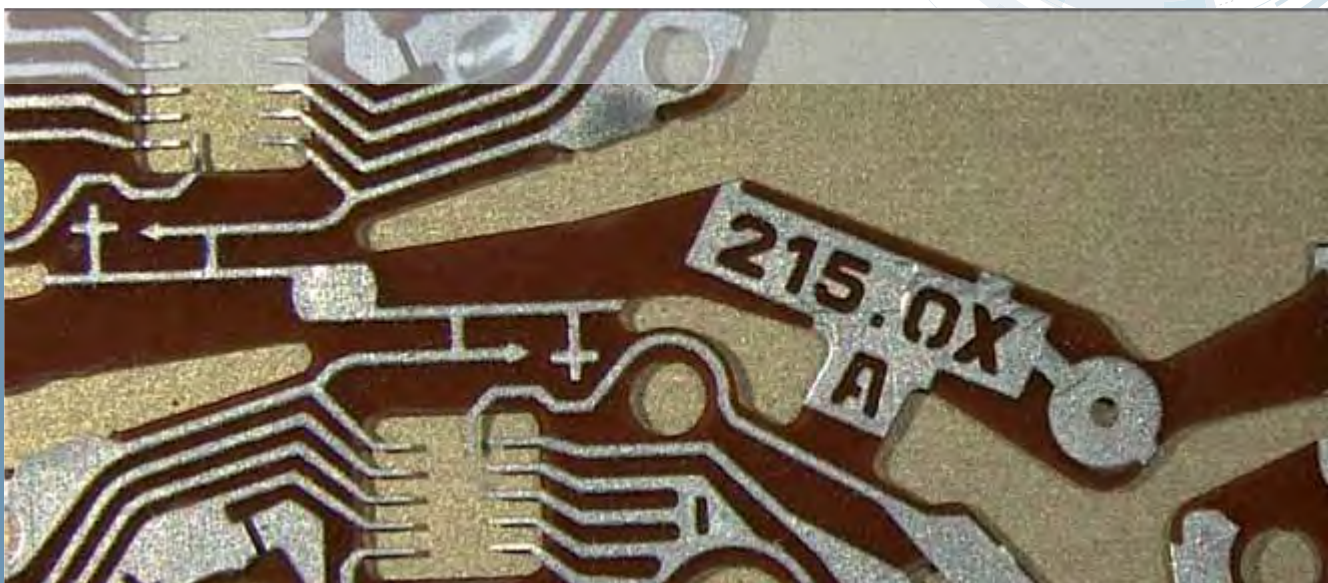
It includes a revolutionary, sophisticated FPGA (Field Programmable Gate Array) program that has been specially developed for microscopic images. The software is set apart by the “ultra fast shuttering system”, which responds to changes in lighting conditions twice as fast as other manufacturer’s systems.

Microcast® FULL HD camera system



Technical data

Image sensor:	3 x 1/3" CCD chip
Output signal H x V:	1920 x 1080 50p / 60p
Aspect ratio:	16 : 9
Optical interface:	C-Mount
Exposure modes:	Automatic/manual
Shutter speed:	Automatic (1/2700s – 1/60s) Manual (1/1700s – 1/60s)
Digital amplification:	+2dB, +4dB, +8dB, max
White balance:	Automatic/manual
User settings:	(8) Programmable settings (using numeric keypad or camera head buttons)
Operating languages:	English, German, Spanish, French, Italian, Portuguese, Russian, Polish
Outputs	
HD video output:	2 x DVI-D
SD video outputs:	1 x Composite Video; 2 x S-Video; 1 x RGB (only for Microcast HD Studio and HD Studio Pro DV CCUs)
Memory interface:	2 x USB (only for Microcast® HD Studio and HD Studio Pro DV CCUs)



Digital recording formats:

Image format: JPEG (1920 x 1080 pixels)

Video format: MPEG4 (720 x 576 pixels)

Dimensions / weights:

Camera head: 60mm (l) x 45mm (h) x 50mm (w)
240g

Camera control unit: 305mm (w) x 335mm (d) x 89mm (h)
3.35 kg

Sets

20 9600 30* Microcast® HD Pro-Lite (standard without documentation option)

20 9603 30* Microcast® HD Studio (standard with documentation option)

20 9604 30* Microcast® HD Studio Pro (premium, like HD Studio with Firewire DU interface)

Accessories

20 9650 00 RINCON HD Image Analysis SW software for image recording and analysis. Supports digital measurements, annotation

20 9680 00 HD Gateway Interface (set), for connecting High Definition camera systems to commercial monitors and displays

20 0402 80 KARL STORZ USB Flash Drive, 4 GB

* Note: Only in connection with lenses for video cameras (see p.31)

* Corresponding HD monitors upon request * Country-specific keyboards upon request

KARL STORZ TELECAM SL

Parfocal Zoom



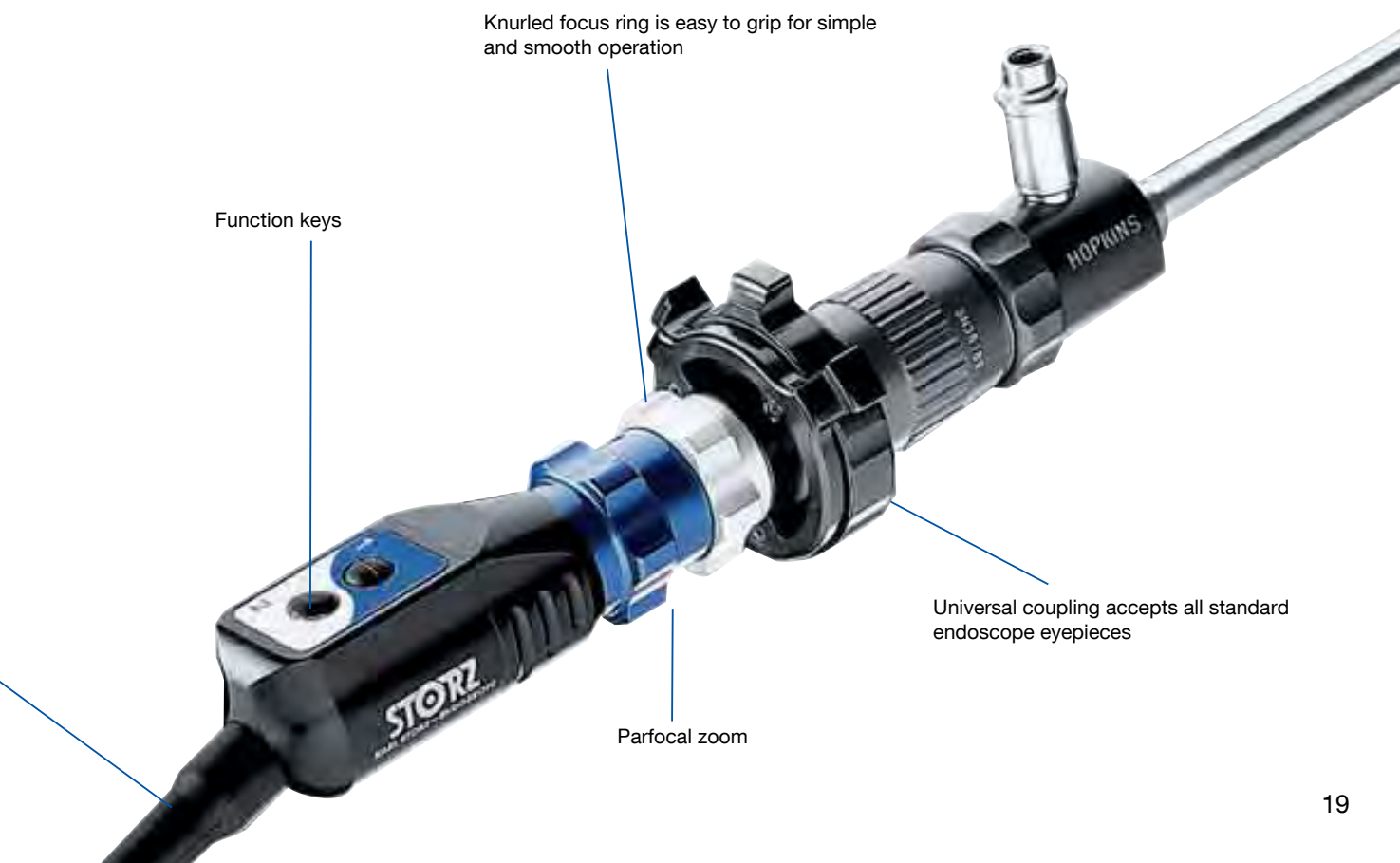
Product features

- High horizontal resolution of more than 450 lines
- Digital image processing through the integrated image processor module that includes a title generator
- Optional manual or automatic exposure control (patented)
(1/50 s – 1/10000 s PAL, 1/60 s – 1/10000 s NTSC)
- Automatic white balance with memory function for 2 white balance values
- Integrated title generator
- Compatible with Composite, S-Video, and RGB
- Integrated universal power supply
- 2 function keys at the camera head for controlling the camera functions; depending on the device and camera control unit, they may be pre-programmed or freely selectable
- Includes parfocal zoom objective

Angled camera cable
facilitates visual and
tactile orientation

Parfocal zoom lens

Outstanding optical zoom without loss of image information



KARL STORZ TELECAM SL

Parfocal Zoom



TELECAM One-Chip Camera Head



20 2120 30 **TELECAM One-Chip Camera Head**, color system **PAL**, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, $f = 25 - 50 \text{ mm}$ (2x), 2 freely programmable camera head buttons

20 2121 30 **Same**, color system **NTSC**

Only for use with TELECAM SL II Camera Control Unit
20 2130 11U or TECHNO PACK® Xe, TECHNO PACK® T or
VIDEOSCOPE Control Unit **81 2810 01**

Technical data

Image sensor:	1/2" CCD chip
Pixels:	752 (H) x 582 (V) pixels per chip (PAL) 768 (H) x 494 (V) pixels per chip (NTSC)
Resolution:	> 450 lines (horizontal)
Lens:	Parfocal zoom lens (optical zoom)
Instrument coupling:	For all rigid and flexible endoscopes with standard eyepiece
Video output:	Composite signal to BNC connector Y/C signal to S-Video connector (2x) RGB signal to BNC connector

Camera head

Dimensions:	Ø 28-43 mm, length 51 mm (without lens) weight 0.08 kg
Camera cable:	Length 300 cm

Control unit (CCU)

Dimensions:	305 x 89 x 335 mm (w x h x d)
Weight:	2.95 kg

Design corresponds to IEC 6011, 601218, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class 1

TELECAM SL II Camera Control Unit



20 2130 11U*

TELECAM SL II Camera Control Unit (CCU), color systems **PAL/NTSC**, with integrated digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable**, for controlling peripheral devices

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

DV Connecting Cable, 6-pin to 4-pin

Keyboard, with US English character set

* Country-specific mains cords upon request.

TELECAM C-MOUNT, TELECAM DX



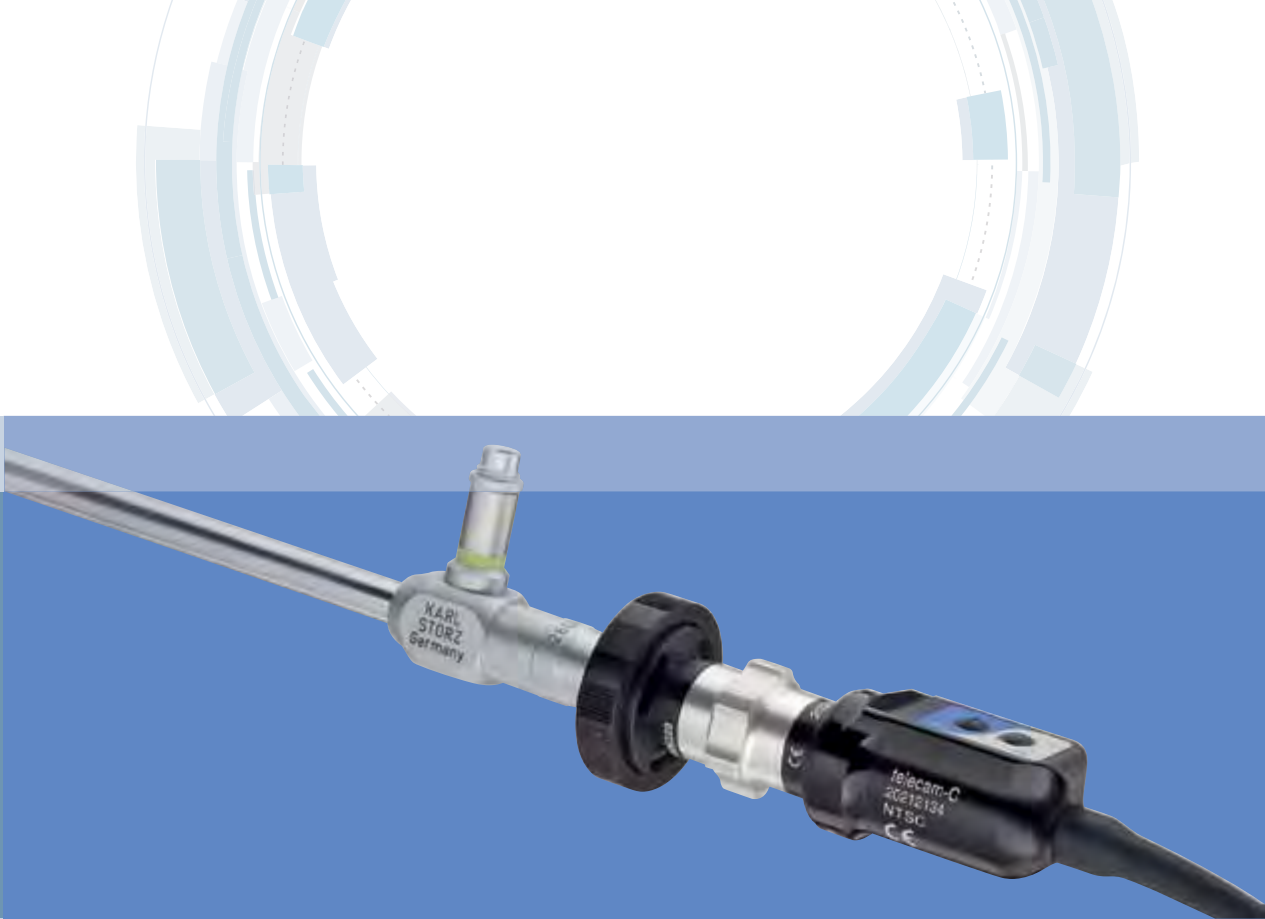
C-MOUNT lenses available
with a focal length of 12, 25, 30,
and 38 mm

Function keys

Universal coupling accepts
all standard endoscope
eyepieces

Knurled focus ring is easy to grip
for simple and smooth operation





Product features

- High horizontal resolution of more than 450 lines
- Includes optional (patented) automatic exposure control (1/50 s – 1/10000 s PAL, 1/60 s – 1/10000 s NTSC)
- Automatic white balance with memory function for 20 white balance values
- Compatible with Composite and S-Video
- Integrated universal power supply
- Can be directly adapted to a microscope
- 2 function keys at the camera head for controlling the camera functions; depending on the employed device and camera control unit, they may be preprogrammed or freely selectable
- Large zone of sharp focus
- Very bright image
- Low weight
- Compatible with all camera control units of the KARL STORZ product line TELECAM DX II and TELECAM SL II, TECHNO PACK® X/Xe/T, and videoscope camera control unit

TELECAM C-MOUNT, TELECAM DX



TELECAM C-MOUNT One-Chip Camera Head



20 2120 34 TELECAM C-MOUNT One-Chip Camera Head, color system PAL

20 2121 34 Same, color system NTSC

Only for use with TELECAM DX II Camera Control Unit, **20 2330 11** or TECHNO PACK® Xe, TECHNO PACK® T or VIDEOSCOPE Control Unit **81 2810 01**

TELECAM DX II Camera Control Unit



20 2330 11* TELECAM DX II Camera Control Unit, color systems PAL/NTSC, with integrated digital fiberscope filters, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x Connecting Cable, for controlling peripheral devices

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

* Country-specific mains cords upon request.

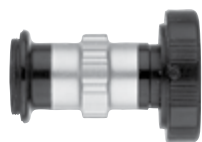
Technical data

Image sensor:	1/2" CCD chip
Pixels:	752 H x 582 V per chip (PAL) 768 H x 494 V per chip (NTSC)
Resolution:	> 450 lines (horizontal)

Lens

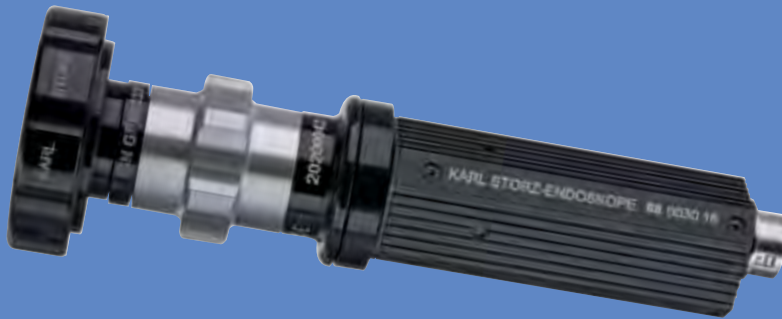
C-MOUNT:	integrated special lens, C-MOUNT
Video output:	Composite signal to BNC connector, S-Video to 4-pin Mini-DIN connector (2x)
Control output:	3.5 mm stereo jack (ACC 1, ACC 2)

Spare Parts



20 2000 42	C-MOUNT Lens , f = 30 mm, soakable
20 2000 43	C-MOUNT Lens , f = 38 mm, soakable
20 2301 41	C-MOUNT Lens , f = 25 mm, soakable
20 2301 45	C-MOUNT Lens , f = 12 mm, soakable

Color video camera



Product features

- Excellent for heavy-duty industrial use thanks to its robust, compact construction and design
- This color video camera can be used for a large variety of applications since it generates images of outstanding quality, even in poor lighting or outdoor conditions.
- The color video camera features a combined signal and power cable

Technical data

Image sensor:	Super HAD II 1/3 type IT CCD
Pixels:	752 H x 582 V per chip
Resolution:	> 460 lines (horizontal)

Lens

Coupling:	NF-mount
Adaptor:	NF-C-MOUNT
Video output:	S-Video

Color Video Camera



- 88 0030 18

1/3" CCD Color Video Camera, PAL,
size: 22 x 22 x 64, weight: 50 g,
white balance,
including:
Y/C Output Signal
Power Supply and Mains Cord 88 0030 18 A
C-MOUNT Adaptor 88 0030 18 B
- Note:

Only in conjunction with lenses
for video cameras (see page 31).

Spare Parts



- 88 0030 18 A

Power Supply and Mains Cord



- 88 0030 18 B

C-MOUNT Adaptor

LCD color monitor

Digital image processing at the PC, LCD monitor



Product features

- High image quality: The new LCD monitors are equipped with VGA LCD panels with 1280 x 1024 pixel resolution that enable precise image display of numerous video signals, including Composite and Y/C.
- Furthermore, they offer a wide viewing angle that ensures high image brightness and superb contrast.
- Wide viewing angle: LCD panel offers a horizontal and vertical viewing angle of 170° with only minimally reduced contrast, so that images can be viewed from various positions and angles.
- Selection between several inputs: Color monitors are equipped with three selectable video inputs – analog Composite, Y/C (S-Video) and RGB/Component – and therefore accept signals from multiple cameras and recorders.



69274 N **LCD Color Monitor**, NeovoX-17B,
desktop version, color systems **PAL/NTSC**,
max. resolution 1280 x 1024, screen diagonal 17",
1x S-Video in, 1x DVI-D, VGA input,
power supply 100 – 240 V

Note: **Corresponding HD monitors available on request.**

Medicapture is a digital image capture device.
The simple digital storage unit with USB 2.0 port is installed
between the camera and the monitor.



88 0031 15 **Medicapture M-USB-170**,
with USB flash drive 256 MB, 240 x 200 x 63 mm

Camera lenses



Digital camera accessories

Note: The digital camera should have a small zoom range.



80590

Rapid Coupling, to mount endoscopes to existing camera lenses. Coupling is screwed into the filter thread of the camera lens. When ordering, please indicate the thread diameter: i.e. 55 mm (diameter) x 0.75 (gradient)

Commercially available CCD video cameras with high light gathering power are typically suitable for applications in endoscopic video technology.

KARL STORZ offers special lenses with C-MOUNT connector for connecting endoscopes with the CCD cameras. With these lenses, various image sizes can be displayed on the monitor.

Lenses for Video Cameras



80591 C

KARL STORZ Special Lens, with rapid coupling to endoscope eyepiece and C-MOUNT connection, focal length $f = 35$ mm



20 2000 42

C-MOUNT Lens, $f = 30$ mm, soakable

20 2000 43

C-MOUNT Lens, $f = 38$ mm, soakable

20 2301 41

C-MOUNT Lens, $f = 25$ mm, soakable

20 2301 45

C-MOUNT Lens, $f = 12$ mm, soakable

Video Cables



Video Cables



BNC/BNC Video Cables

536 MK	length 200 cm
536 MF	length 450 cm
536 ME	length 760 cm
536 MN	length 1500 cm



S-Video (Y/C) Connecting Cables

547 S	length 180 cm
547 SR	length 500 cm
547 SN	length 1500 cm
547 SE	length 500 cm



RGBS Connecting Cables

547 RG length 180 cm

547 RGM length 450 cm



Connecting Cables, for controlling peripheral units, 3.5 mm stereo jack plug

20 2210 70 length 180 cm

20 2210 75 length 1500 cm

20 2210 76 length 500 cm

20 2210 77 length 1500 cm

81 0101 71 Potential Equalization Cable, one side
with POAG plug, other side with battery
clamp, length 10 m

Camera adaptors

Adaptor for attaching the KARL STORZ cameras to products from other manufacturers



Adaptors for use with KARL STORZ cameras



81 0101 71

KARL STORZ Special Beamsplitter, for use with IMAGE 1, TRICAM® and TELECAM camera heads for simultaneous viewing through the endoscope and on the monitor. The connector for the camera head is angled 120° and is rotatable.



9530 BD

Integral-Rotating Beamsplitter, for use with IMAGE 1, TRICAM® and TELECAM camera heads for simultaneous viewing through the endoscope and on the monitor. The connector for the camera head is angled 90° and rotatable.

The beamsplitter is designed as such that the camera head – irrespective of the telescope movement – is always in the 6'clock position. The monitor image thus corresponds exactly to the image the user would have under direct vision.

It is also possible to lock the camera in the 6 o'clock position with the coupler.



29020 GM **Adaptor**, for Machida fiberscopes, for use with IMAGE 1, TRICAM® and TELECAM camera heads



29020 GN **Adaptor**, for Olympus fiberscopes, new model, for use with IMAGE 1, TRICAM® and TELECAM camera heads



29020 GO **Adaptor**, for Olympus fiberscopes, old models, for use with IMAGE 1, TRICAM® and TELECAM camera heads



29020 GP **Adaptor**, for Pentax and Fujinon fiberscopes, for use with IMAGE 1, TRICAM® and TELECAM camera heads



81490 Q **Adaptor**, for Richard Wolf endoscopes to KARL STORZ camera adaptor

Notes

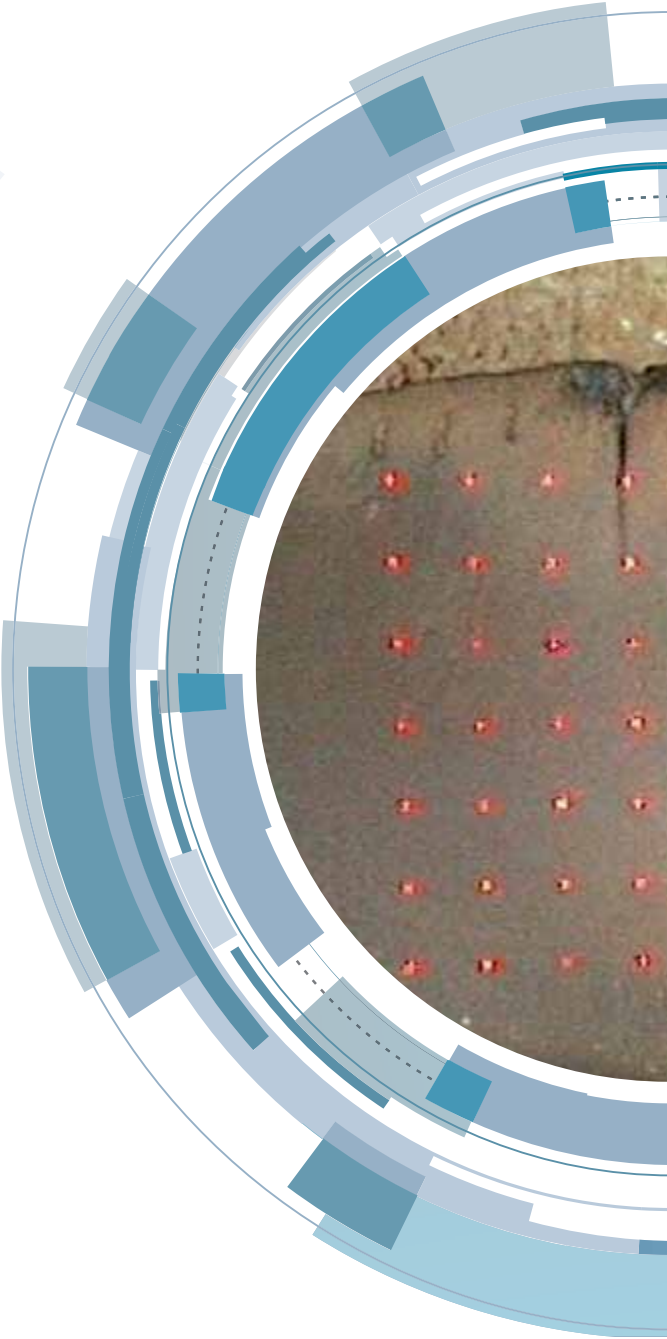
Notes

KARL STORZ Industrial Group

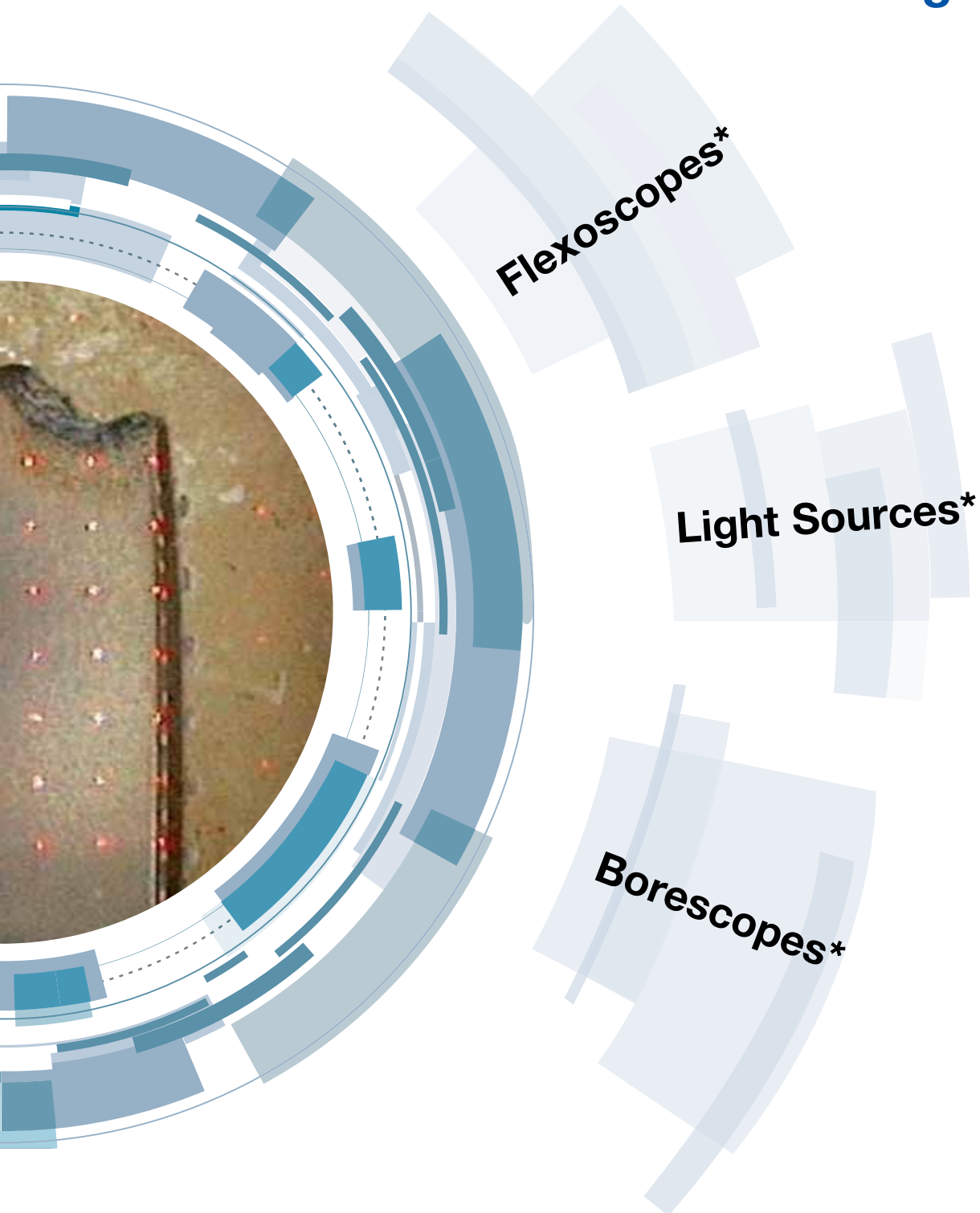
**Measurement
Systems and
Documentation***

Videoscopes*

**Portable
Systems***



Product groups



At KARL STORZ, we are constantly advancing all of our products. For that reason, please understand that changes may be made to the scope of supply, design, equipment, and technology. Therefore, the information, illustrations, and descriptions contained herein cannot be made the basis for any claims whatsoever.

* For an up-to-date overview of the individual product groups, please refer to the product brochures of the KARL STORZ Industrial Group.



Let's get Industrial!

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