

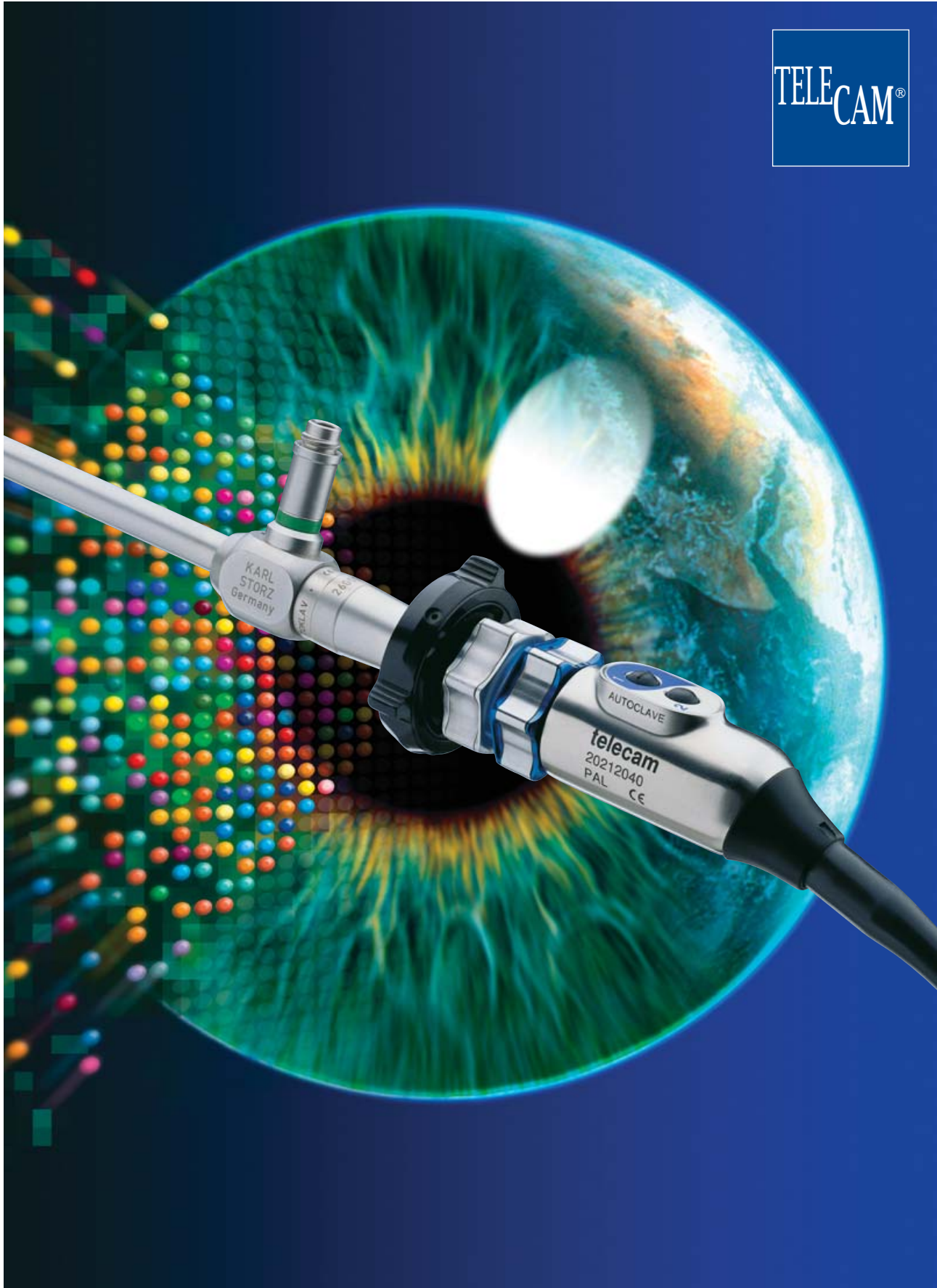
# Endovision® Camera Systems

TELECAM® – One-Chip Camera System

**STORZ**  
KARL STORZ — ENDOSKOPE



CAMERA SYSTEMS



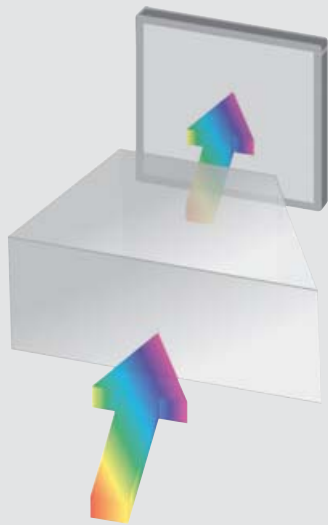
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# TELECAM®

One-Chip Camera System, Color Systems PAL/NTSC,  
Digital Imaging Processor



CAMERA SYSTEMS



### Multifunctional, Cost-Effective Camera System for the Physicians's Office and Clinics

This latest development in the **TELECAM® SL II** and **TELECAM® DX II** camera platform offers enhanced functionality, improved image quality and high performance, ensuring a high degree of patient safety combined with cost-effectiveness.

A doctor's practice can thus offer the same level of treatment as a hospital clinic.

The new KARL STORZ camera system provides such a wide range of applications that it is also suitable for routine use in the OR.

Special Features	TELECAM® SL II	TELECAM® DX II
<b>Compatible with KARL STORZ Video Endoscopes</b>	●	
Automatic exposure control for superior image quality and maximum control	●	●
Anti-moiré filter	●	●
Up to 60 times higher light sensitivity due to integrated digital processing technology (IPM)	●	
Patented optical Parfocal Zoom Lens	●	
Digital video output (DV)	●	
Electronic zoom 1-2x can be adjusted to 4 levels	●	
Manual or fully automatic exposure control	●	●
Contrast enhancement and digital filter for improved image quality	●	
Standard diagnosis in white light mode	●	
Automatic white balance with memory function	●	●
Horizontal resolution of more than 450 lines	●	●
Programmable function keys for four camera functions or peripheral devices	●	●
Freeze Frame to "freeze" images for the purpose of documenting clinical findings, for diagnostic consultations with colleagues or patients and for patient documentation	●	●
Lightweight design allows ergonomic use	●	●

8-05



202130 20

**202130 11 U TELECAM® SL II Camera Control Unit**

color systems **PAL/NTSC**, with integrated digital Image Processing Module

**consisting of:**

- 202130 20 TELECAM® SL II Camera Control Unit**
- 400 A Mains Cord**
- 202001 30U Keyboard**
- 2x 202210 70 Connecting Cable**, for controlling peripheral devices, length 180 cm
- 536 MK BNC/BNC Video Cable**, length 180 cm
- 547 S S-Video (Y/C) Connecting Cable**, length 180 cm
- 200400 82 DV Cable**, 6 pin to 4 pin, length 500 cm

**Specifications:**

Video Output	Input	Control Output	Control Unit (CCU)	Power Supply	Certified to:
- Composite signal at BNC socket - S-Video signal to 4 pin Mini DIN socket (2x) - DV signal to 6 pin DV socket	Keyboard input for title generator and camera functions to 5 pin DIN socket	3.5 mm stereo jack plug (ACC 1, ACC 2)	- Dimensions: 305 x 88 x 254 mm (w x h x d) - Weight: 2.7 kg	100-240 VAC, 50/60 Hz	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE according to MDD, protection class 1/BF

8-05

**Optional Accessories for TELECAM® SL II** see page TP 24

CAMERA SYSTEMS

For use with TELECAM® SL II Camera Control Unit 20 2130 11U



**TELECAM® One-Chip Camera Head**



20 2120 40 / 20 2121 40

20 2120 40	PAL	<b>TELECAM® One-Chip Camera Head</b>
20 2121 40	NTSC	

color systems **PAL/NTSC**, **autoclavable**, with integrated Parfocal Zoom Lens, f = 14 – 28 mm (2x), 2 freely programmable camera head buttons, including plastic container 39301 ACT for sterilization



20 2120 30 / 20 2121 30

20 2120 30	PAL	<b>TELECAM® One-Chip Camera Head</b>
20 2121 30	NTSC	

color systems **PAL/NTSC**, with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons

**TELECAM® C-Mount One-Chip Camera Head**



20 2120 34 / 20 2121 34

20 2120 34	PAL	<b>TELECAM® C-Mount One-Chip Camera Head</b>
20 2121 34	NTSC	

color systems **PAL/NTSC**, 2 freely programmable camera head buttons

Optional Accessories for TELECAM® SL II see page TP 24

For use with TELECAM® SL II Camera Control Unit 20 2130 11U

**TELECAM® Beamsplitter One-Chip Camera Head**



20 2120 32 / 20 2121 32  
20 2120 31 / 20 2121 31

20 2120 32	<b>PAL</b>	<b>TELECAM® Beamsplitter One-Chip Camera Head</b>
20 2121 32	<b>NTSC</b>	

color systems **PAL/NTSC**, with rotating CDD sensor, f = 25 mm, 2 freely programmable camera head buttons, for photodynamic early diagnosis

20 2120 31	<b>PAL</b>	<b>TELECAM® Beamsplitter One-Chip Camera Head</b>
20 2121 31	<b>NTSC</b>	

color systems **PAL/NTSC**, with rotating CDD sensor, f = 30 mm, 2 freely programmable camera head buttons, for photodynamic early diagnosis

**DCI® II One-Chip Camera Head**



20 2620 30 / 20 2621 30

20 2620 30	<b>PAL</b>	<b>DCI® II One-Chip Camera Head</b>
20 2621 30	<b>NTSC</b>	

color systems **PAL/NTSC**, f = 16 mm, for use with **DCI® HOPKINS® telescopes**



**Specifications:**

Image Sensor	Pixels	Resolution	Signal-to-/Noise Ratio
- 1/2" CCD chip - 1/4" CCD chip, (TELECAM®, autoclavable and DCI® II)	- 752 (H) x 582 (V) pixels per chip (PAL) - 768 (H) x 494 (V) pixels per chip (NTSC)	min. 450 lines (horizontal)	> 50 dB (PAL) > 52 dB (NTSC)

AGC	Min. Sensitivity	Exposure Control	Lens
Microprocessor-controlled	3 Lux (f = 1.4 mm)	- 1/50 sec.-1/10000 sec. (PAL) - 1/60 sec.-1/10000 sec. (NTSC)	- C-Mount: integrated special lens, C-Mount - Parfocal-Zoom: integrated Parfocal Zoom Lens, f = 25-50 mm - <b>autoclavable</b> : integrated Parfocal Zoom Lens, f = 14-28 mm - DCI® II: integrated lens, f = 16 mm - Beamsplitter: special lens with beamsplitter, f = 25 or 30 mm

**Optional Accessories for TELECAM® SL II** see page TP 24

	<p>20 2000 42 <b>C-Mount Lens</b>, f = 30 mm, soakable</p> <p>20 2000 43 <b>C-Mount Lens</b>, f = 38 mm, soakable</p> <p>20 2301 41 <b>C-Mount Lens</b>, f = 25 mm, soakable</p> <p>20 2301 45 <b>C-Mount Lens</b>, f = 12 mm, soakable</p>
	<p>20 2600 30 <b>Adaptor</b>, for connection of standard eyepiece telescopes with DCI® camera heads</p> <p>20 2600 31 <b>Adaptor</b>, for use of DCI® Telescopes with standard camera heads</p>
	<p>20 2000 35 <b>C/V-Mount Adaptor</b>, for coupling <b>KARL STORZ</b> camera heads with C-Mount connection to optical accessory with V-Mount connection</p>
	<p>20 2001 30 <b>Keyboard</b>, with German character set, PS/2 connector, including AT-adaptor</p> <p>20 2001 30F <b>Keyboard</b>, with French character set</p> <p>20 2001 30I <b>Keyboard</b>, with Italian character set</p> <p>20 2001 30P <b>Keyboard</b>, with Portuguese character set</p> <p>20 2001 30S <b>Keyboard</b>, with Spanish character set</p> <p>20 2001 30U <b>Keyboard</b>, US-version</p>
	<p>20 2002 70 <b>TELECAM® SL II, DX II, Extension Cable</b>, length 600 cm</p>
	<p>39301 ACT <b>Plastic Container for Sterilizing and Storage</b>, of camera heads IMAGE1™, TRICAM® and TELECAM®, <b>autoclavable</b>, for use with steam, gas and plasma sterilization</p>
	<p>20 0101 30 <b>One-Pedal Footswitch</b>, one-stage, for still image function</p> <p>20 2330 70 <b>Adaptor ACC 1</b>, for footswitch 20 0101 30</p>

**Camera Control Unit**



20 2330 20

**20 2330 11 TELECAM® DX II Camera Control Unit**

color systems **PAL/NTSC**, with integrated digital fiberscope filters

consisting of:

**20 2330 20 TELECAM® DX II Camera Control Unit**  
400 A **Mains Cord**

2x **20 2210 70 Connecting Cable**, for controlling peripheral devices, length 180 cm

536 MK **BNC/BNC Video Cable**, length 180 cm

547 S **S-Video (Y/C) Connecting Cable**, length 180 cm

**Specifications:**

Video Output	Control Output	Control Unit (CCU)	Power Supply	Certified to:
- Composite signal to BNC socket - S-Video signal to 4 pin Mini DIN socket (2x)	3.5 mm stereo jack plug (ACC 1, ACC 2)	- Dimensions: 305 x 88 x 254 mm (w x h x d) - Weight: 2.7 kg	100-240 VAC, 50/60 Hz	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE according to MDD, protection class 1/BF

**Camera Head**

**TELECAM® C-Mount One-Chip Camera Head**



20 2120 34 / 20 2121 34

**20 2120 34 PAL TELECAM® C-Mount One-Chip Camera Head**  
**20 2121 34 NTSC TELECAM® C-Mount One-Chip Camera Head**






color systems **PAL/NTSC**, 2 freely programmable camera head buttons

**For use with TELECAM® DX II Camera Control Unit 20 2330 11**

**Specifications:**

Image Sensor	Pixels	Resolution	Signal-to-Noise Ratio	AGC	Min. Sensitivity	Exposure Control	Lens
- 1/2" CCD chip	- 752 (H) x 582 (V) pixels per chip (PAL) - 768 (H) x 494 (V) pixels per chip (NTSC)	> 450 lines (horizontal)	> 50 dB (PAL) > 52 dB (NTSC)	Microprocessor-controlled	3 Lux (f = 1.4 mm)	- 1/60 sec.-1/10000 sec. (PAL) - 1/60 sec.-1/10000 sec. (NTSC)	C-Mount: integrated special lens, C-Mount

**Optional Accessories for TELECAM® DX II** see page TP 26

	<p><b>20 2000 42</b> <b>C-Mount Lens</b>, f = 30 mm, soakable  <b>20 2000 43</b> <b>C-Mount Lens</b>, f = 38 mm, soakable  <b>20 2301 41</b> <b>C-Mount Lens</b>, f = 25 mm, soakable  <b>20 2301 45</b> <b>C-Mount Lens</b>, f = 12 mm, soakable</p>
	<p><b>20 2002 70</b> <b>TELECAM® SL II, DX II, Extension Cable</b>, length 600 cm</p>
	<p><b>20 2600 30</b> <b>Adaptor</b>, for connection of standard eyepiece telescopes with DCI® camera heads</p>
	<p><b>20 2600 31</b> <b>Adaptor</b>, for use of DCI® Telescopes with standard camera heads</p>
	<p><b>20 2000 35</b> <b>C/V-Mount Adaptor</b>, for coupling <b>KARL STORZ</b> camera heads with C-Mount connection to optical accessory with V-Mount connection</p>
	<p><b>20 0101 30</b> <b>One-Pedal Footswitch</b>, one-stage, for still image function  <b>20 2330 70</b> <b>Adaptor ACC 1</b>, for footswitch <b>20 0101 30</b></p>