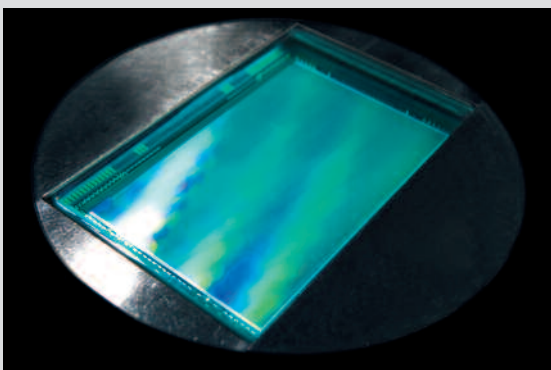


## All Variants at a Glance.

### The camera's components and available versions (PAL) (NTSC also available on request)

surgiCam specification	Item no.	Wiring	Zoom camera	Control unit	Image erection	CODEC
Economy version, center	84-415-04	yes	yes	no	yes	no
Basic version, control unit, center	84-412-01	yes	yes	yes	yes	no
Basic version, control unit, separate arm	84-310-01	yes	yes	yes,	in preparation	no
Advanced version, center	84-414-01	yes	yes	yes	yes	yes
Advanced version, sep. arm	84-314-01	yes	yes	yes	in preparation	yes
Camera mounting preparation, center	84-410-20	yes	no	no	no	no
Camera mounting preparation, separate arm	84-410-30	yes, incl. arm	no	no	no	no
Camera retrofit set, Economy version, center*	84-416-40 or 84-416-42	yes	yes	no	yes	no
Camera retrofit set, Basic version, center*	84-418-40 or 84-418-42	yes	yes	yes	yes	no
Camera retrofit set, Advanced version, center*	84-420-40 or 84-420-42	yes	yes	yes	yes	yes
Camera retrofit set, Basic version, separate arm*	84-422-40	yes	yes	yes	in preparation	no
Camera retrofit set, Advanced version, separate arm*	84-424-44	yes	yes	yes	in preparation	yes
Control unit retrofit for Economy (upgrade to Basic version)	84-428-01	---	---	yes	---	---
Digital Codec retrofit (upgrade Basic to Advanced version)	84-428-10					yes
Interface for connection to Storz OR1, Olympus EndoAlpha, Smith & Nephew, for one light	89-930-61					in combination with CODEC
Interface for connection to Storz OR1, Olympus EndoAlpha, Smith & Nephew, for two lights	89-930-62					in combination with CODEC
Interface for connection to Storz OR1, Olympus EndoAlpha, Smith & Nephew, for three lights	89-930-63					in combination with CODEC

\* Presupposes an operating light or separate arm fitted with a mounting preparation set for subsequent camera installation



"CCD chip"

# The Essentials at a Glance: medTFT<sup>pro</sup> Monitors



TFT monitor	Signal inputs	Voltage supply	PSU operation	Item number
19"	VGA, DVI-D, RGBS, S-video (Y/C), SDI	24 VDC	100–240 VAC	84-200-28
19"	VGA, RGBS, Composite (color video signal), S-video (Y/C)	24 VDC	100–240 VAC	84-200-29
19"	Composite (color video signal), S-video (Y/C) VGA, DVI-D	12 VDC	100–240 VAC	84-200-30
Table stand for 19-inch monitor				84-200-40

# Flexibility is the Word. The Suspension Systems.

Designation	Stop	Slip rings, poles	Cable duct (Ø)	Sterilizable handle	Spring arm type	Load capacity	Monitor fixation	Rotary canopy	Max. possible wiring	Item number
Standard tracking arm, top position, with "Comfort" TFT support for monitors up to 21"	no	9	2 x 10 mm	yes	AC2000	11 kg	VESA 100 VESA 75	no	Power supply S-video	84-300-10
Light-duty equipment suspension arm, bottom position, with "Comfort" TFT support for monitors up to 21"	yes	–	2 x 10 mm	yes	AC2000	11 kg	VESA 100 VESA 75	no	e.g. 1 x power supply, 1 x VGA, 1 x S-VHS, wire pull	84-300-08
Heavy-duty equipment suspension arm, top position, with "Comfort" TFT support for monitors up to 21"	yes	–	24 mm	yes	AC3000	11 kg*	VESA 100 VESA 75	yes	e.g. 1 x power supply, 1 x VGA, 2 x S-video, wire pull	84-300-11
Heavy-duty equipment suspension arm, top position, with dual TFT support for "Duo TFT", for monitors up to 21"	yes	–	24 mm	yes	OndaSpace	2 x 11 kg	VESA 100 VESA 75	yes	e.g. 2 x power supply, 2 x VGA, 2 x S-video, 1 x control signal lead, wire pull	84-300-14
Light-duty equipment suspension arm, top position, with "Eco" TFT suspension arm	yes	–	2 x 10 mm	no	AC2000	13 kg	VESA 100 VESA 75	yes	e.g. 1 x power supply, 2 x S-VHS, wire pull	84-300-16
Light-duty equipment suspension arm, top position, with "Comfort" TFT support for monitors up to 21"	yes	–	2 x 10 mm	yes	AC2000	11 kg	VESA 100 VESA 75	yes	e.g. 1 x power supply, 2 x S-VHS, wire pull	84-300-17
Light-duty equipment suspension arm, bottom position, with "Eco" TFT suspension arm	yes	–	2 x 10 mm	no	AC2000	13 kg	VESA 100 VESA 75	no	e.g. 1 x power supply, 1 x control signal lead	84-300-18

"Comfort" version: CG-neutral, with max. swiveling range and sterilizable handle

"ECO" version: lockable tilt joint, stainless steel handle (non-sterile), for touch screen

\* Max. load capacity on request: 25 kg

## Technical Data. KLS MartinurgiCam digital.

### KLS MartinurgiCam digital

Image sensor
TV standard
Pixels
Horizontal resolution
Line frequency
Image/frame frequency
Automatic shutter
Minimum illumination
Signal-to-noise ratio (SNR)
Zoom
Focal length (zoom lens)
Iris/aperture
White balance
Ambient temperature
Control unit signal outputs, analog
Control unit signal outputs, digital
Video standard
Video data transfer rate
Audio input
Audio data transfer rate
Network protocols
Power requirements: control unit / camera
Power input: control unit / camera
Dimensions
Camera weight
Dimensions: control unit (complete)
Control unit weight
Protective conductor (PE) terminal
Protection class
Type B
Mark of conformity
Compatibility
Additional signal inputs
Increased patient safety

### Technical Data

1/6" Super HAD CCD chip
PAL (optionally NTSC)
PAL 752 (H) x 582 (V), NTSC 768 (H) x 494 (V)
> 460 TV lines
PAL 15,625 Hz, NTSC 15,750 Hz
50 Hz, 60 Hz
1/1–1/10,000 s
3 lux
49 dB
300x (25x optical + 12x digital)
2.4 to 60 mm
F 1.6–2.7
automatically
0°C to 45°C (32–113°F)
2 x S-video (Y/C), 2 x Composite (color video signal)
MPEG-4 via RJ45
MPEG-4
max. 1.2 Mbit/s, constant and variable
1 mono jack
24 kbps wideband audio-coding
TCP, UDP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS, DHCP, UPnP
100–240 V, 50/60 Hz / 24 V (AC/DC)
max. 24 W / approx. 6 W
131 mm x 88 mm (length x diameter)
approx. 0.85 kg
270 x 120 x 280 mm (W x H x D)
approx. 2 kg
⊕
I
⚡
CE (in conformity with 93/42/EEC)
with medTV <sup>digital</sup> and medTV <sup>pro plus</sup>
1 x S-video and 1 x Composite
Galvanic isolation of input and output signals (≥ 4 kV)



Control unit, front



Control unit, rear

## surgiCam Ordering Information

<b>surgiCam Ordering Data</b>	
84-310-01-04	SurgiCam camera on separate arm, BASIC version, PAL
84-310-02-04	SurgiCam camera on separate arm, BASIC version, NTSC
84-314-01-04	SurgiCam camera on separate arm, ADVANCED version, PAL
84-314-02-04	SurgiCam camera on separate arm, ADVANCED version, NTSC
84-410-20-04	SurgiCam mounting preparation set for camera installation in light head center
84-410-30-04	SurgiCam mounting preparation set for camera installation on separate arm
84-412-01-04	SurgiCam camera integrated into light head, BASIC version, for X8/H8/X6/H6/H5, PAL
84-412-05-04	SurgiCam camera integrated into light head, BASIC version, for X8/H8/X6/H6/H5, NTSC
84-414-01-04	SurgiCam camera integrated into light head, ADVANCED version, for X8/H8/X6/H6/H5, PAL
84-414-05-04	SurgiCam camera integrated into light head, ADVANCED version, for X8/H8/X6/H6/H5, NTSC
84-415-04-04	SurgiCam camera integrated into light head, ECONOMY version, for X8/H8/X6/H6/H5, PAL
84-415-05-04	SurgiCam camera integrated into light head, ECONOMY version, for X8/H8/X6/H6/H5, NTSC
<b>Retrofit Sets</b>	
84-416-40-04	SurgiCam retrofit set for camera installation in light head, ECONOMY version, for X8/H8, PAL
84-416-42-04	SurgiCam retrofit set for camera installation in light head, ECONOMY version, for X6/H6/H5, PAL
84-416-44-04	SurgiCam retrofit set for camera installation in light head, ECONOMY version, for X8/H8, NTSC
84-416-46-04	SurgiCam retrofit set for camera installation in light head, ECONOMY version, for X6/H6/H5, NTSC
84-418-40-04	SurgiCam retrofit set for camera installation in light head, BASIC version, for X8/H8, PAL
84-418-42-04	SurgiCam retrofit set for camera installation in light head, BASIC version, for X6/H6/H5, PAL
84-418-44-04	SurgiCam retrofit set for camera installation in light head, BASIC version, for X8/H8, NTSC
84-418-46-04	SurgiCam retrofit set for camera installation in light head, BASIC version, for X6/H6/H5, NTSC
84-420-40-04	SurgiCam retrofit set for camera installation in light head, ADVANCED version, for X8/H8, PAL
84-420-42-04	SurgiCam retrofit set for camera installation in light head, ADVANCED version, for X6/H6/H5, PAL
84-420-44-04	SurgiCam retrofit set for camera installation in light head, ADVANCED version, for X8/H8, NTSC
84-420-46-04	SurgiCam retrofit set for camera installation in light head, ADVANCED version, for X6/H6/H5, NTSC
84-422-40-04	SurgiCam retrofit set for camera installation on separate arm, BASIC version, PAL
84-422-42-04	SurgiCam retrofit set for camera installation on separate arm, BASIC version, NTSC
84-424-44-04	SurgiCam retrofit set for camera installation on separate arm, ADVANCED version, PAL
84-424-46-04	SurgiCam retrofit set for camera installation on separate arm, ADVANCED version, NTSC
84-428-01-04	SurgiCam ECONOMY upgrade to BASIC version by adding control unit
84-428-10-04	SurgiCam BASIC version upgrade (to ADVANCED version) with digital CODEC retrofit
<b>Suspension Arms*</b>	
84-300-08-04	Light-duty equipment suspension arm for bottom arm position, with "Comfort" TFT support, for monitors up to 21", fully wired, with stops, internal Ø 2 x 10 mm
84-300-10-04	Standard tracking arm for top position, with "Comfort" TFT support, for monitors up to 21", stop-free thanks to 9-pole slip rings
84-300-11-04	Heavy-duty equipment suspension arm for top position, with "Comfort" TFT support, for monitors up to 21", with stops, large cable duct Ø 1 x 24 mm
84-300-14-04	Heavy-duty equipment suspension arm for top position, with "Comfort" dual TFT support for Duo-TFT, for monitors up to 21", Ø 1 x 24 mm
84-300-16-04	Light-duty equipment suspension arm for top position, with "ECO" TFT support and stops, Ø 2 x 10 mm
84-300-17-04	Light-duty equipment suspension arm for top position, with "Comfort" TFT support, for monitors up to 21", Ø 2 x 10 mm
84-300-18-04	Light-duty equipment suspension arm for bottom position, with "ECO" TFT support and stops, Ø 2 x 10 mm
<b>Monitors</b>	
84-200-28-04	19" NDS RADIANCE TFT monitor
84-200-29-04	19" NDS ENDOVUE TFT monitor
84-200-30-04	19" KERN DFM FLATMEDIC TFT monitor
84-200-40-04	Table stand for 19" TFT monitor

\* "Comfort" version: CG-neutral, with max. swiveling range and sterilizable handle

"ECO" version: lockable tilt joint, stainless steel handle (non-sterile), for touch screen