ILO electronic GmbH

ENDOSCOPY EQUIPMENT EXPERTISE

Manufacturer of endoscopy devices
Standard units and custom systems

PRODUCT CATALOG
2024/2025

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Coming soon!
Technical data subject to change

ICG SYSTEM - **ENVI**

4K camera & LED light source

Art.No.		Description	UDI/GTIN
855-0001	ENVI CAM 4K ICG	4-Chip camera 4x1/3" - UHD, recording system, ICG	04250369709595
826-0001	ENVI LED ICG	LED ligh source, ICG	04250369709397

TOUCH PANEL

Option: Blue frame

Art.No.		Description	UDI/GTIN
740-2403		Camera head, Remote, 4MOS 4K ICG, 4x 1/3", black • 4 configurable push buttons • Weight: approx. 500g (with cable) • Diameter: approx. 57mm • Length: approx. 84mm (without cable bend relief) • Cable length: 3,05m	04250369709601
870-0064		TV-ILO 25 UHDWP ICG, Rotation Adapter f = 25.0 mm, c-mount, soakable	04250369709786
896-0014		Light guide adapter, Storz, light source side, for HTT green diameter 4,8 mm, length 2300 mm, HTT green	
893-0003		Glass fibre ligth guide, 23 ICG 48 diameter 4,8 mm, length 2300 mm, HTT green	

Coming soon!
Technical data subject to change

ICG SYSTEM - **ENVI**

4K camera & LED light source

Technical Data - ICG Camera with touch panel

Camera head:	· Aspect ratio: 16:9 · Image sensor: Image sensor 4x 1/3" (R,G,B, NIR) · Immersible (using the attached cap)
Voltage range (current consumption):	· 100-240 V (50 VA)
Frequency:	· 50-60 Hz
Image resolution:	· UHD 3840 x 2160 · White balance automatically, with data hold
Video output:	· 1 x HDMI 4K (3840 x 2160) · 1 x SDI 4k (4 x 3G) · 1 x HDMI Full HD (1920 x 1080) · 1 x SDI FHD (3G, HD) · Optional video output: 4K SDI output, 1 x 12G SDI instead of 4x3G
Video format:	· HDMI output: 3840x2160/59.94p, 3840x2160/50p, 1920x1080/59.94p, 1920x1080/59.94i, 1920x1080/50p, 1920x1080/50i · SDI output: 3840x2160/59.94p, 3840x2160/50p, 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50
Features:	· Image recording, Video recording · 10 User presets for regular ligth and ICG · Light Source control
Display mode:	· 3 modes: RGB , RGB+NIR (Overlay), RGB+NIR (Split Screen)
Dimensions (WxHxD) / Weight:	· approx. 360 x 135 x 337 mm / approx. 6,5 kg
Delivery contains:	· CCU, camera head, mains cable, user manual

Technical Data - ICG Light source with touch panel

LED module:	· LED with approx. CRI 90, Daylight quality, approx. 5600 K · Laser free light source · Lifetime: > 20.000 hr · IR light and standard RGB white light · Storz (standard connection)
Voltage range (current consumption):	· 100-240 V (130 VA)
Frequency:	· 50-60 Hz
Other connections:	· Service (RJ45)
Dimensions (WxHxD) / Weight:	· approx. 360 x 135 x 337 mm / approx. 8 kg
Delivery contains:	· Light source, mains cable, user manual

Classification (System)

Protection class (acc.to IEC 60601-1):	· I
Safety class:	· CF
IP code:	· 20
Standard:	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	· I

LIGHT SOURCE

LED light source, typical CRI 90

Art.No.	Series (grey)	Description	UDI/GTIN
825-0301	LED 3000plus	Storz adapter, automatic light intensity control	04250369706761
825-0303	LED 3000Tplus	Turret adapter, automatic light intensity control	04250369706785

Art.No.	Series (blue)	Description	UDI/GTIN
825-0302	M-LED 3000plus	Storz adapter, automatic light intensity control	04250369706778
825-0304	M-LED 3000Tplus	Turret adapter, automatic light intensity control	04250369706792

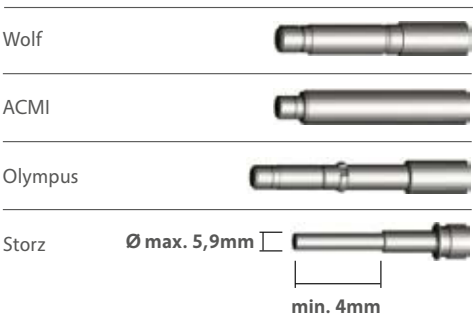
LIGHT SOURCE

LED light source, typical CRI 90

Technical Data

LED module:	· LED CRI 90, Daylight quality, approx. 5600 K · Lifetime: > 20.000 hr
Voltage range (current consumption):	· 100-240 V (130 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Video In:	· 1x Video, BNC
Other connections:	· Service (RJ45)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· 20
Standard:	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	· I
Dimensions (WxHxD):	· 360mm x 125mm x 351mm (without Turret)
Weight:	· approx. 5 kg
Delivery contains:	· Light source, mains cable, user manual, BNC cable (optional)
Light guide connection:	· Storz (standard connection):

· Turret, multi connector (optional):



Exclusively pictured version!

IMPORTANT:

Use only high-performance light cables / high-temperature-resistant light guides!

LIGHT SOURCE

LED light source, typical CRI 70

Art.No.	Series (grey)	Description	UDI/GTIN
825-0201	LED 2500	Storz adapter, automatic light intensity control	04250369706747

Art.No.	Series (blue)	Description	UDI/GTIN
825-0202	M-LED 2500	Storz adapter, automatic light intensity control	04250369706754

LIGHT SOURCE

LED light source, typical CRI 70

Technical Data

LED module:	· LED CRI 70, approx. 6500 K · Lifetime: > 20.000 hr
Light guide connection:	· Storz (standard connection)
Voltage range (current consumption):	· 100-240 V (130 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Video In:	· 1x Video, BNC
Other connections:	· Service (RJ45)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· 20
Standard:	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	· I
Dimensions (WxHxD):	· 360mm x 125mm x 351mm
Weight:	· approx. 5 kg
Delivery contains:	· Light source, mains cable, user manual, BNC cable (optional)

IMPORTANT:

Use only high-performance light cables / high-temperature-resistant light guides!

LIGHT SOURCE

LED 50

Art.No.	Series (grey)	Description	UDI/GTIN
862-2301	LED 50	Storz adapter, manual light intensity control	04250369708352

Technical Data

LED module:	· LED lamp, comparable 50 W, Daylight quality
Light guide connection:	· Storz (standard connection)
Voltage range (current consumption):	· 100-240 V (max. 55 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Other connections:	· Service (RJ45)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· 20
Standard:	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	· I
Dimensions (WxHxD):	· 295 x 128 x 278mm
Weight:	· approx. 3,8 kg
Delivery contains:	· Light source, mains cable, user manual

IMPORTANT:

Use only high-performance light cables / high-temperature-resistant light guides!

ACCESSORIES - LIGHT SOURCES

SPARE LAMPS / FLEXIBLE FIBRE OPTIC CABLE

Spare lamps	Description	Art.No.
300W Spare lamp	ILO 300W 5H, Xenon Lamp, 5-hole inlc. heat transfer copmound	**125-0008**
180W Spare lamp	Xenon reflector lamp, with cable, XBO R 180W/45C OFR	**125-0003**
100W Spare lamp	Xenon reflector lamp, with cable, XBO R 100W/45C	**125-0002**
Halogen 150W	Halogen lamp 150W, 15V, type: Xenophot HLX 64634, OSRAM	**126-0011**
Halogen 250W	Halogen lamp 250W, 24V, type: Typ 13163 ILC, Philips	**126-0010**
Halogen 75W	Halogen lamp 75W, 12V, type: Xenophot HLX 64615, OSRAM	**126-0003**
Metal Halid bulb	Metal halid bulb X24, 24 Watt	**770-0000**
X 50 Spare lamp	X 50 Spare lamp ofr XL50, XE50 eco, X50 with mounting ring	**770-0005**

Liquid light guides	Diameter	Length	Color	Art.No
18 FM 50	5,0 mm	1800 mm	grey	**894-0000**
23 FM 50	5,0 mm	2300 mm	grey	**894-0001**
30 FM 50	5,0 mm	3000 mm	grey	**894-0002**
18 FM 50	5,0 mm	1800 mm	stainless steel mantle	**894-0008**

Glass fibre light guides	Diameter	Length	Color	Art.No
18 HLC 35	3,5 mm	1800 mm	grey	**892-0000**
18 HLC 48	4,8 mm	1800 mm	grey	**892-0001**
23 HLC 35	3,5 mm	2300 mm	grey	**892-0002**
23 HLC 48	4,8 mm	2300 mm	grey	**892-0003**
30 HLC 35	3,5 mm	3000 mm	grey	**892-0004**
30 HLC 48	4,8 mm	3000 mm	grey	**892-0005**
23 ICG 48	4,8 mm	2300 mm	HTT green	**893-0003**

ACCESSORIES - LIGHT SOURCES

FLEXIBLE FIBRE OPTIC ADAPTER

Adapter source side	Description	Art.No.
input, Storz	Light guide adapter light source side, for HTT green	**896-0014**
input, Storz	Light guide adapter light source side, for LW-, LC-Type	**896-0008**
input, Olympus	Light guide adapter light source side, for LW-, LC-Type	**896-0009**
input, Wolf	Light guide adapter light source side, for LW-, LC-Type	**896-0010**
input, ACMI	Light guide adapter light source side, for LW-, LC-Type	**896-0011**
input, Storz HLC	Light guide adapter light source side, for HLC-Type	**896-0016**
input, Olympus HLC	Light guide adapter light source side, for HLC-Type	**896-0017**
input, Wolf HLC	Light guide adapter light source side, for HLC-Type	**896-0018**
input, ACMI HLC	Light guide adapter light source side, for HLC-Type	**896-0019**

ACCESSORIES - LIGHT SOURCES

FLEXIBLE FIBRE OPTIC ADAPTER

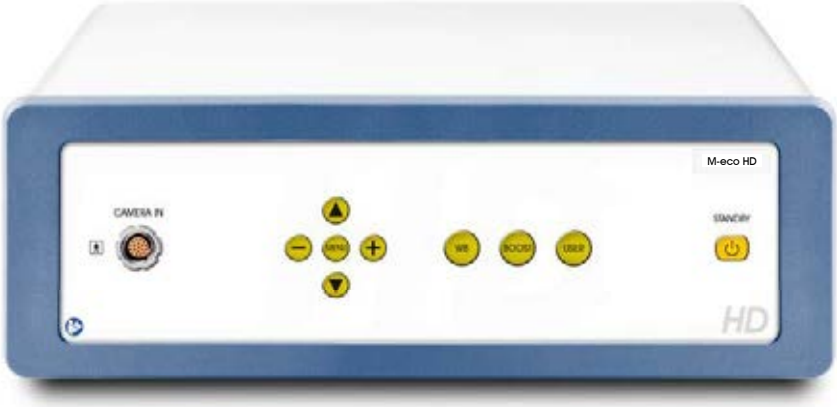
Adapter instrument side	Description	Art.No.
output, Storz,	Light guide adapter instrument side, for LW-, LC-, HLC-, FM-type	**896-0000**
output, Olympus	Light guide adapter instrument side, for LW-, LC-, HLC-, FM-type	**896-0001**
output, Wolf	Light guide adapter instrument side, for LW-, LC-, HLC-, FM-type	**896-0002**
output, ACMI	Light guide adapter instrument side, for LW-, LC-, HLC-, FM-type	**896-0003**

CAMERA

ECO HD camera, single chip

Art.No.	Series (grey)	Description	UDI/GTIN
853-0311	ECO HD, 1-MOS	1/3" CMOS (16:9), without recording system	04250369708086

Art.No.	Series (blue)	Description	UDI/GTIN
853-0312	M-ECO HD, 1-MOS	1/3" CMOS (16:9), without recording system	04250369708130



Art.No.	Description	UDI/GTIN
740-2014	Camera head, ECO 1MOS HD, 1/3" eco, black, **no buttons** Weight: approx. 150g Size: d= 36,5mm; l= 65mm (without cable bend relief)	04250369708123

CAMERA

ECO HD camera, single chip

Technical Data

Camera head:	・Aspect ratio: 16:9 ・Image sensor: 1/3'' CMOS ・Immersible (using the attached cap)
Voltage range (current consumption):	・100-240 V (25 VA)
Frequency:	・50-60 Hz
Device protection:	・2x T3,15 A
Video system:	・Image resolution: full HD 1920 x 1080 (1080p) ・TV resolution: > 900 lines ・Sensitivity: < 3 lux (1/1.4) ・White balance automatically, with data hold shutter speed: 1/50 (1/60) to 1/10.000 sec
Connections	Video out terminal: ・1x HDMI Other connections: ・1 x USB (A) (USB-keyboard) ・1 x Remote IN (footswitch) ・2 x Remote OUT ・2 x RJ45 (Service)
Protection class (acc.to IEC 60601-1):	・I
Safety class:	・BF
IP code:	・20
Standard:	・IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	・I
Features:	・White balance, boost function ・On-screen-menu ・10 user settings storable ・Multilingual menu ・2.5 digital zoom ・Freeze function ・Character generator
Dimensions (WxHxD):	・360mm x 125mm x 351mm
Weight:	・approx.4,7 kg
Delivery contains:	・CCU, camera head with 3,05m (10ft) cable, mains cable, HDMI - DVI cable, HDMI cable, user manual

Options

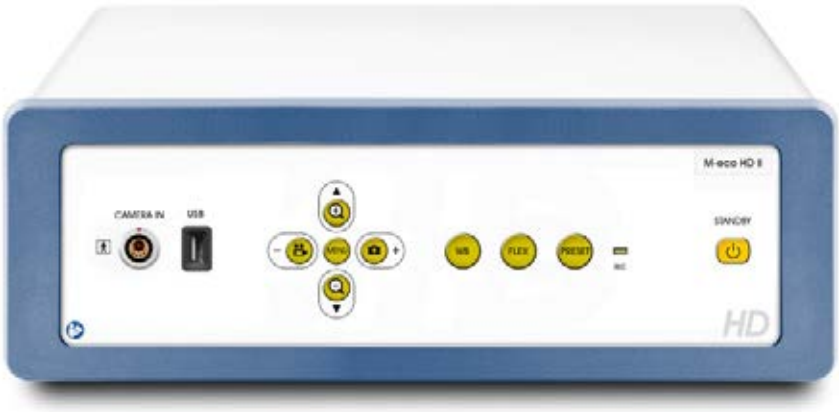
Optional accessories:	・Waterproof keyboard ・Footswitch

CAMERA

ECO HD II camera, single chip

Art.No.	Series (grey)	Description	UDI/GTIN
853-0501	ECO HD II, 1-MOS	1/2" CMOS (16:9), with recording system	04250369709007

Art.No.	Series (blue)	Description	UDI/GTIN
853-0502	M-ECO HD II, 1-MOS	1/2" CMOS (16:9), with recording system	04250369709014



Art.No.	Description	UDI/GTIN
740-2018	Camera head, ECO HD II, 1/2" ECO, black, **3 buttons** Weight: approx. 180 g Size: d= 38mm; l= 79mm (without cable bend relief)	04250369709298

CAMERA

ECO HD II camera, single chip

Technical Data

Camera head:	· Aspect ratio: 16:9 · Image sensor: 1/2'' CMOS
Voltage range (current consumption):	· 100-240 V
Frequency:	· 50-60 Hz (rolling shutter)
Device protection:	· 2x T3,15 A
Video system:	· Image resolution: Full HD 1920 x 1080 px (camera system inlc. sensor) · TV resolution: > 900 TV lines; horizontal · Sensitivity: < 3 lux (1/1.4) · White balance automatically, with data hold
Connections	Video out terminal: · 1x HDMI · 1x DVI · 1x SDI · 1x VIDEO Other connections: · 1 x USB (A) (Service) · 1 x Remote IN (footswitch) · 1 x RJ45 (Service)
Recording	· Image format: JPG 1920 x 1080 · Video format: Full HD 1920 x 1080 · Connection: Front USB (A) (max. 256 GB for USB Sticks)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· 20
Standard:	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	· I
Features:	· White balance · On-screen-menu · 8 endoscope presets · Digital zoom · Freeze function
Dimensions (WxHxD):	· 360mm x 125mm x 351mm
Weight:	· approx.4,5 kg
Delivery contains:	· CCU, camera head with 3,05m (10ft) cable, mains cable, HDMI - DVI cable, HDMI cable, user manual

Options

Optional accessories:	· Waterproof keyboard · Footswitch

CAMERA

HD camera, single chip

Art.No.	Series (grey)	Description	UDI/GTIN
853-0006	Swift1HD, 1-MOS	1/3" MOS (16:9), without recording system	04250369706891
853-0201	Swift1HD USB, 1-MOS	1/3" MOS (16:9), with recording system	04250369706099

Art.No.	Series (blue)	Description	UDI/GTIN
853-0001	M-CAM1 HD, 1-MOS	1/3" MOS (16:9), without recording system	04250369708130
853-0202	M-CAM1 HD USB, 1-MOS	1/3" MOS (16:9), with recording system	04250369706051

CAMERA

HD camera, single chip

Technical Data

Camera head:	· Aspect ratio: 16:9 · Image sensor: 1/3'' CMOS · Immersible (using the attached cap)
Voltage range (current consumption):	· 100-240 V (25 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Video system:	· Image resolution: full HD 1920 x 1080 · TV resolution: > 1000 lines · Sensitivity: < 3 lux (1/1.4) · White balance automatically, with data hold shutter speed: 1/50 (1/60) to 1/10.000 sec
Recording (optional)	· Image format: JPG 1920 x 1080 · Video format: Full HD 1920 x 1080; Mpeg-4 (H.264 Codec); Image rate 60fps · Connection: USB (A)
Connections:	Video out terminal: · 1x HDMI / DVI · 1x Y-Pb-Pr (Component) · 1x Video (PAL / NTSC) · 1x S-Video (PAL / NTSC) · 2x HD SDI (optional) Other connections: · 1 x USB (A) (USB-keyboard) · 1 x Remote IN (footswitch) · 1 x Remote OUT (videoprinter, videorecorder,...) · 1 x RJ45 (Service)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· IP 20
Standard:	· IEC 60601-1-2 / IEC 60601-1-1
Device classification (EU) 2017/745, annex VIII:	· I
Features:	· White balance, boost function, freeze function · On-screen-menu · 3 user settings storable · 2.5 digital zoom · Multilingual menu · Character generator
Dimensions:	· Control unit: 355mm x 103mm x 253mm (WxHxD); Weight: approx. 4,5 kg
Delivery contains:	· CCU, camera head with 3,05m (10ft) cable, Y/C cable, BNC cable, HDMI - DVI cable, HDMI cable, user manual

Options

Features:	· Image capture, video capture
Optional accessories:	· Waterproof keyboard · Footswitch

Art.No.	Description	UDI/GTIN
740-2010	Camera head, Remote, 1MOS HD, 1/3" , black, 3 push buttons Weight: 105 g Size: d= 34 mm; l= 73 mm (without cable bend relief)	04250369706228

CAMERA

HD camera, 3chip

Art.No.	Series (grey)	Description	UDI/GTIN
852-0301	TRIstar HD, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, without recording system	04250369706853
852-0401	TRIstar HD USB, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, with recording system	04250369706877

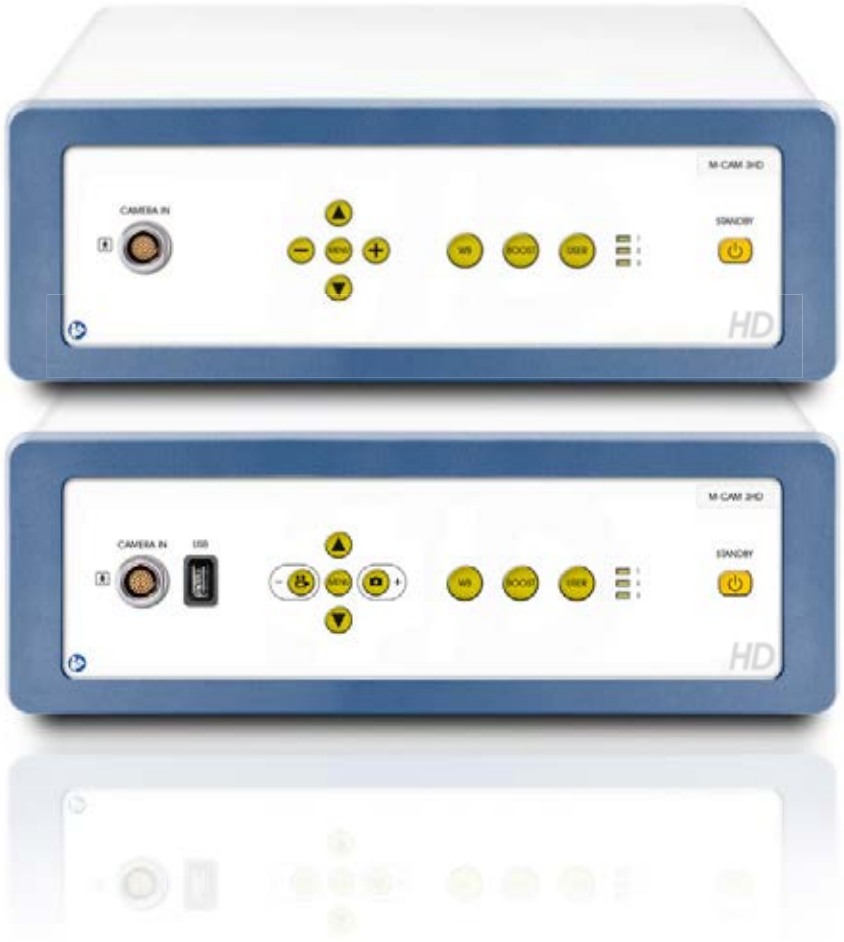
Art.No.	Description	UDI/GTIN
740-2012	Camera head, Remote, 3MOS HD, 3x 1/3", black, 3 buttons	04250369706648

Weight: 145 g
Size: d= 38,5 mm; l= 81 mm
(without cable bend relief)

CAMERA

HD camera, 3chip

Art.No.	Series (blue)	Description	UDI/GTIN
852-0302	M-CAM 3HD, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, without recording system	04250369706860
852-0402	M-CAM 3HD, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, with recording system	04250369706884



Art.No.	Description	UDI/GTIN
740-2012	Camera head, Remote, 3MOS HD, 3x 1/3", black, 3 buttons	04250369706648

Weight: 145 g
Size: d= 38,5 mm; l= 81 mm
(without cable bend relief)

CAMERA

HD camera, 3chip

Technical Data

Camera head:	· Aspect ratio: 16:9 · Image sensor: 3x 1/3'' CMOS · Immersible (using the attached cap)
Voltage range (current consumption):	· 100-240 V (50 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Video system:	· Image resolution: full HD 1920 x 1080 · TV resolution: > 1000 lines · Sensitivity: < 3 lux (1/1.4) · White balance automatically, with data hold shutter speed: 1/50 (1/60) to 1/100.000 sec
Recording (optional)	· Image format: JPG 1920 x 1080 · Video format: Full HD 1920 x 1080; Mpeg-4 (H.264 Codec); Image rate 60fps · Connection: USB (A)
Connections	Video out terminal: · 2x HD SDI · 1x HDMI / DVI · 1x Y-Pb-Pr (Component) · 1x Y/C (PAL / NTSC) · 1x CVBS (PAL / NTSC) Other connections: · 1 x USB (A) (USB-keyboard) · 1 x Remote IN (footswitch) · 1 x Remote OUT (videoprinter, videorecorder,...) · 1 x RJ45 (Service)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· IP 20
Standard:	· IEC 60601-1-2 / IEC 60601-1-1
Device classification (EU) 2017/745, annex VIII:	· I
Features:	· White balance, boost function, freeze function · On-screen-menu · 3 user settings storable · 2.5 digital zoom · Multilingual menu · Character generator
Dimensions:	· Control unit: 360mm x 125mm x 351mm; 4,5 kg
Delivery contains:	· CCU, camera head with 3,05m (10ft) cable, mains cable, Y/C cable, BNC cable, HDMI - DVI cable, HDMI cable, user manual

CAMERA

HD camera, 3chip

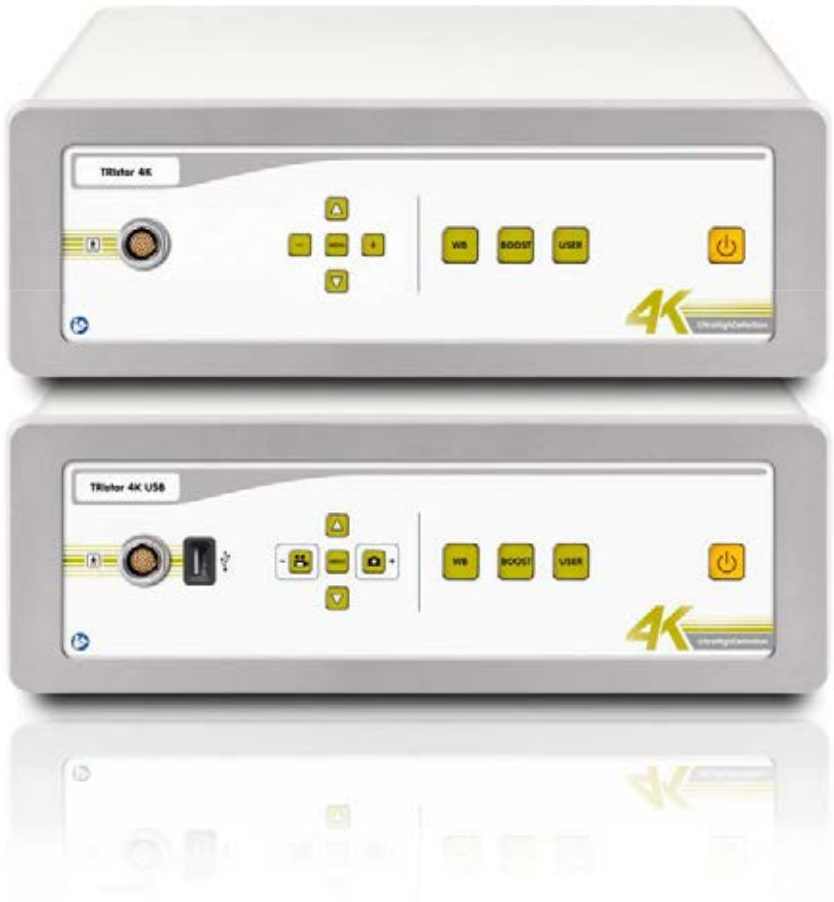
Options

Features:	· Image capture, video capture
Optional accessories:	· Waterproof keyboard · Footswitch

CAMERA

UHD camera 4K, 3 chip

Art.No.	Series (grey)	Description	UDI/GTIN
854-0029	TRIstar 4K	3-Chip 4K camera, without recording system	04250369706709
854-0030	TRIstar 4K USB	3-Chip 4K camera, with recording system	04250369706655



Art.No.	Description	UDI/GTIN
740-2401	Camera head, Remote, 3MOS 4K, 3x 1/3", black, 4 buttons	04250369706662

Weight: approx. 500g
Diameter: 43mm
Length: 85,7mm (without grommet)

With 4 push buttons

CAMERA

UHD camera 4K, 3 chip

Art.No.	Series (blue)	Description	UDI/GTIN
854-0031	M-CAM 4K	3-Chip 4K camera, without recording system	04250369706716
854-0032	M-CAM 4K, USB	3-Chip 4K camera, with recording system	04250369706723

Art.No.	Description	UDI/GTIN
740-2401	Camera head, Remote, 3MOS 4K, 3x 1/3", black, 4 buttons	04250369706662

Weight: approx. 500g
Diameter: 43mm
Length: 85,7mm (without grommet)

With 4 push buttons

CAMERA

UHD camera 4K, 3 chip

Technical Data

Camera head:	· Aspect ratio: 16:9 · Image sensor: 3x 1/3'' CMOS · Immersible (using the attached cap)
Voltage range (current consumption):	· 100-240 V (60 VA)
Frequency:	· 50-60 Hz
Device protection:	· 2x T3,15 A
Video system:	· Image resolution: UHD 3840 x 2160 · TV resolution: 1600 lines · White balance automatically, with data hold
Video output:	· 1 x HDMI 4K (3840 x 2160) · 1 x HDMI Full HD (1920 x 1080) · 1 x SDI 4K (4 x BNC) (3840 x 2160) · 1 x SDI Full HD (1 x BNC) (1920 x 1080)
Video format:	· HDMI output: 3840x2160/59.94p, 3840x2160/50p, 1920x1080/59.94p, 1920x1080/59.94i, 1920x1080/50p, 1920x1080/50i · SDI output: 3840x2160/59.94p, 3840x2160/50p, 1920x1080/59.94p, 1920x1080/59.94i, 1920x1080/50p, 1920x1080/50i
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· IP 20
Standard:	· IEC 60601-1-2 / IEC 60601-1-1
Device classification (EU) 2017/745, annex VIII:	· I
Dimensions (WxHxD):	· 360mm x 125mm x 351mm
Weight:	· approx. 6,2kg
Delivery contains:	· CCU, camera head with 3,05m cable (10ft), mains cable, HDMI cable, User manual

CAMERA

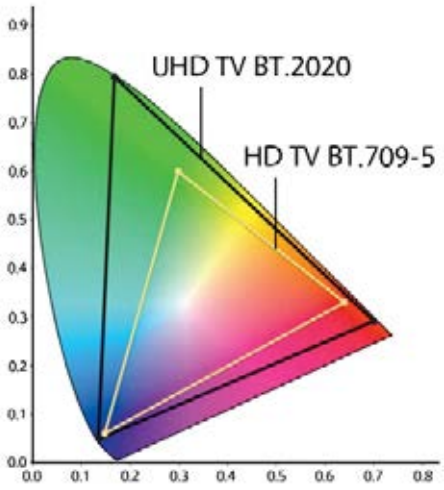
UHD camera 4K, 3 chip

Technical Data

Features:	· 4K UHD resolution · Zoom, freeze, smoke correction · Image enhancement of colour and structure · 10 USER Presets for surgical application · Multilingual menu
Options:	· Image capture, video capture

Colour space

· The camera is able to reproduce the extended color space BT.2020 in addition to the BT.709 color space for HDTV. (Prerequisite is a BT.2020 compatible monitor)



ACCESSORIES - CAMERAS

TV ADAPTER

Art.No.	Series	Description	UDI/GTIN
870-0016	TV-Zoom 1535 PWP	Adapter, vario-zoom, f = 15.0 - 35.0 mm c-mount, soakable	4051423002146

870-0047	TV-14 HD2WP	Adapter f = 14.0 mm, c-mount, soakable	04250369707591
870-0048	TV-18 HD2WP	Adapter f = 18.0 mm, c-mount, soakable	04250369707607
870-0049	TV-22 HD2WP	Adapter f = 22.0 mm, c-mount, soakable	04250369707614
870-0050	TV-25 HD2WP	Adapter f = 25.0 mm, c-mount, soakable	04250369707621
870-0051	TV-28 HD2WP	Adapter f = 28.0 mm, c-mount, soakable	04250369707638

870-0058	TV-14 UHDR, Rotation	Adapter f = 14.0 mm, c-mount, soakable	04250369709632
870-0059	TV-18 UHDR, Rotation	Adapter f = 18.0 mm, c-mount, soakable	04250369709649
870-0060	TV-22 UHDR, Rotation	Adapter f = 22.0 mm, c-mount, soakable	04250369709656
870-0061	TV-25 UHDR, Rotation	Adapter f = 25.0 mm, c-mount, soakable	04250369709663
870-0062	TV-28 UHDR, Rotation	Adapter f = 28.0 mm, c-mount, soakable	04250369709670
870-0065	TV-35 UHDR, Rotation	Adapter f = 35.0 mm, c-mount, soakable	04250369709939

870-0063	TV-ILO Zoom 1530 UHD, Rotation	Adapter, f = 15.0 - 30.0 mm c-mount, soakable, blue/black	04250369709687

870-0064	TV-ILO 25 UHDWP ICG, Rotation	Adapter f = 25.0 mm, c-mount, soakable	04250369709786

ACCESSORIES - CAMERAS

DIVERSE EQUIPMENT

Art.No.	Series	Description
883-1009	Footswitch	Cable length 2m, 3,5mm Type: FS-03

883-3018	Keyboard	Title generator waterproof IP68, US-layout, USB connector, 1,8m cable, grey, 305x140x15mm

COMBINATION

LED 50 HD II - camera & light source

Art.No.	Series	Description	UDI/GTIN
862-2511	LED 50 HD II	LED light source, 1/2" CMOS HD camera with recording system	04250369709304

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Art.No.	Description	UDI/GTIN
740-2018	Camera head, ECO HD II, 1/2" ECO, black, **3 buttons** Weight: approx. 180 g Size: d= 38mm; l= 79mm (without cable bend relief)	04250369709298

COMBINATION

LED 50 HD II - camera & light source

Technical Data

Camera head:	・Aspect ratio: 16:9 ・Image sensor: 1/2“ CMOS	
Voltage range (current consumption):	・100-240 V (95 VA)	
Frequency:	・50-60 Hz (interlaced scan)	
Device protection:	・2x T3,15 A	
Video system:	・Image resolution: full HD 1920 x 1080 ・White balance automatically, with data hold	・TV resolution: > 900 lines ・Sensitivity: < 3 lux (1/1.4)
Recording:	・Image format: JPG 1920 x 1080 ・Video format: Full HD 1920 x 1080 ・Connection: USB (A)	
Lamp:	・LED lamp, comparable 50 W	
Light guide connection:	・Storz	
Connections	Video out terminal: ・1x HDMI ・1x DVI ・1x SDI ・1x VIDEO	Other connections: ・1 x USB (A) (Service) ・1 x Remote IN (footswitch) ・1 x RJ45 (Service)
Protection class (acc.to IEC 60601-1):	・I	
Safety class:	・BF	
IP code:	・20	
Standard:	・IEC 60601-1-2	
Device classification (EU) 2017/745, annex VIII:	・I	
Features:	・Multifunctional system ・Image and video recording ・Freeze function ・8 endoscope presets ・Multilingual menu	・Camera and light source ・White balance ・Digital zoom ・On-screen-menu ・Flex button (fiberscope preset)
Dimensions:	・Control unit: 295 x 128 x 278mm (WxHxD); Weight: approx. 3 kg	
Delivery contains:	・CCU, camera head with 3,05m (10ft) cable, mains cable, HDMI - DVI cable, HDMI cable, user manual	
Optional accessories:	・Footswitch	

INSUFFLATOR

CO_2-INSUFFLATOR

Art.No.	Series (grey)	Description	UDI/GTIN
951-1081	DF-320	without heater, Maximum gasflow: 20 l/min	04250369602520
951-1082	DF-330	without heater, Maximum gasflow: 30 l/min	04250369602537
951-1083	DF-345	without heater, Maximum gasflow: 45 l/min	04250369603329
950-1062	DF-320H	with heater, Maximum gasflow: 20 l/min	04250369602858
950-1063	DF-330H	with heater, Maximum gasflow: 30 l/min	04250369602575
950-1064	DF-345H	with heater, Maximum gasflow: 45 l/min	04250369602582

Art.No.	Series (blue)	Description	UDI/GTIN
951-1074	D-Flow 20	without heater, Maximum gasflow: 20 l/min	04250369603282
951-1075	D-Flow 30	without heater, Maximum gasflow: 30 l/min	04250369603299
951-1076	D-Flow 45	without heater, Maximum gasflow: 45 l/min	04250369603305
950-1058	D-Flow 20H	with heater, Maximum gasflow: 20 l/min	04250369602827
950-1059	D-Flow 30H	with heater, Maximum gasflow: 30 l/min	04250369602834
950-1060	D-Flow 45H	with heater, Maximum gasflow: 45 l/min	04250369602728

INSUFFLATOR

CO_2-INSUFFLATOR

Features

- Full automatic
- Filter system for sterility
- Up to 45 liters / minute
- Microprocessor controlled

Technical Data

Insufflator pressure:	· 0 - 30 mmHg
Power supply:	· 100 - 240 VAC, 50 - 60 Hz
Power consumption:	· 25 - 40 VA (25-105 VA with gas heating)
Protection class (acc.to IEC 60601-1):	· I
Safety class:	· BF
IP code:	· IP 20
Standard:	· IEC 60601-1-2 / IEC 60601-1-1
Device classification (EU) 2017/745, annex VIII:	· IIb
Gas:	· Carbon dioxide (medical)
Gas connection:	· UNF 7/16"
Dimensions:	· Control unit: 355mm x 105mm x 253mm (WxHxD); 6,7 kg
Delivery contains:	· Insufflator, mains cable, CO2 high pressure tube UNF to German gas connection, wrench set: SW17/ SW30, sterile filter, standard silicone tube (not H version), system gas heater with tube set (only H version), user manual
Features:	· Flexible gas supply: The device can be used with gas bottles or central gas supply systems. The gas supply mode can be changed very easily by integrated software.
	· System gas heater: For reduction of post surgery problems the DF Series is available with a high efficient gas heater. The gas heater is preadjusted and works on a plug and play base full automatically. The heat exchanger can be autoclaved with the tube set.
	· 2 modes available: - Needle (pre-insufflation) use for veress-needle - Trocar (main insufflation) use for high-flow-instruments
	· ACF: The DF Series stands for Advance-Continuous-Flow-Insufflation. That means no more disruption between gasflow and pressure reading phases.
	· Safety: The automatic self check is activated each time the unit is switched on to ensure that all electronic and pneumatic components are in good running order. This safety feature carries a guarantee for lifetime of the unit. The changeable sterile filter prevents reflux of liquids and contamination of the gas way.
	· Differantial pressure indicator: A colored LED arrey shows the actual-setpoint pressure difference between setted value and factual value in the patient.

INSUFFLATOR
ACCESSORIES

Art.No.	Insufflator Accessories	Description
952-0012	Heating Device	Heater source for insufflators with heating, autoclavable
952-0009	Filter	single sterilized filter for insufflator, single use
952-0007	Filter	50 sterilized filter for insufflator, single use
952-0005	Filter	100 sterilized filter for insufflator, single use
952-0006	Filter	250 sterilized filter for insufflator, single use
952-0008	Filter	500 sterilized filter for insufflator, single use
952-1020	High-pressure-tube	DIN GER/ DIN GER, 1m
952-1022	High-pressure-tube	UNF/ UNF, 1m
952-1025	High-pressure-tube	UNF/ PIN Index, 1m
952-1026	High-pressure-tube	UNF/ ISO, 1m
952-1021	High-pressure-tube	UNF/ GER, 1m
952-0004	Tubing	For laparoscopy insufflator without heating, 8mm x 2,5m
952-0003	Tubing	For laparoscopy insufflator with heating, 8mm x 2,5m

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