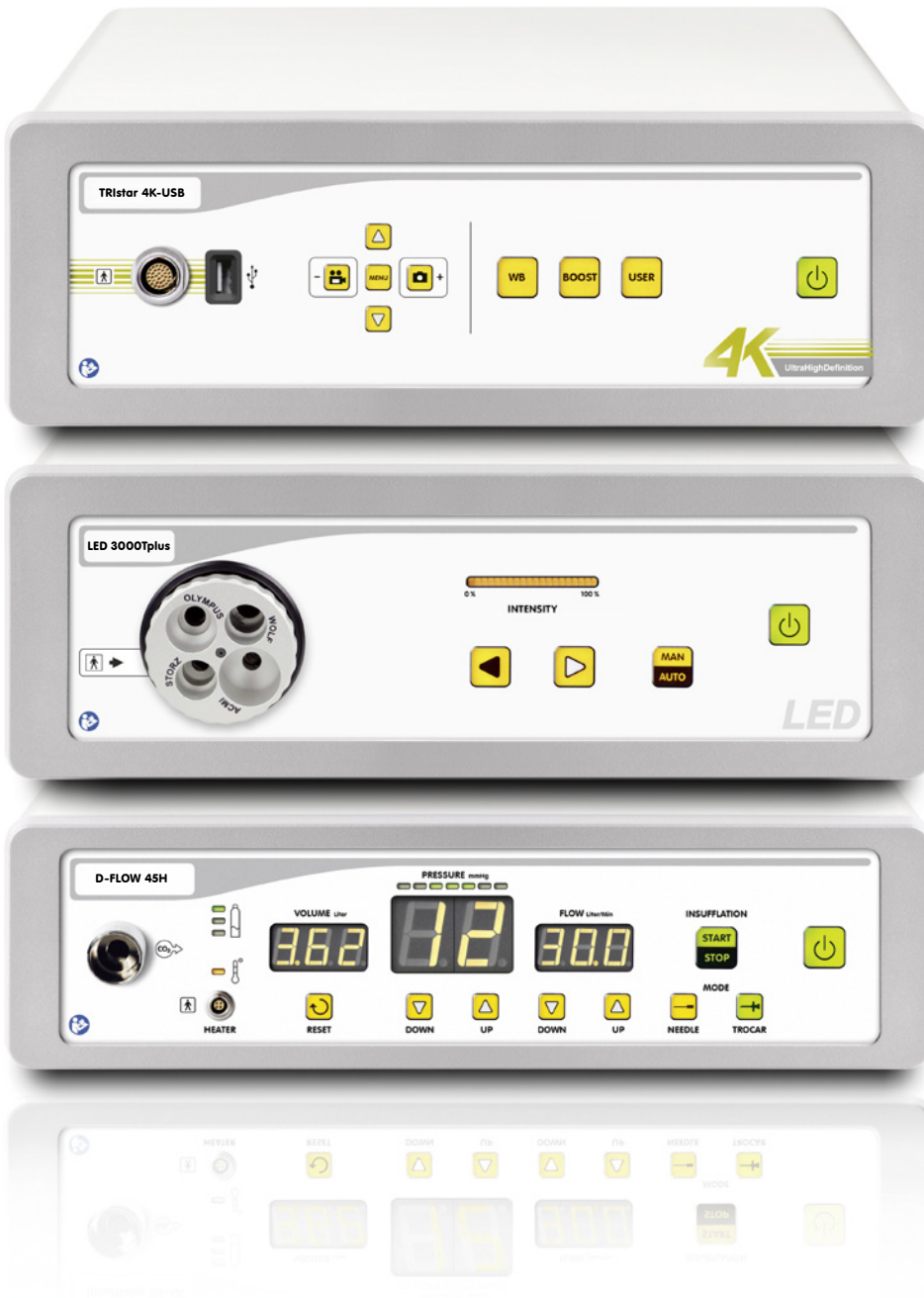




ILO electronic GmbH

ENDOSCOPY EQUIPMENT EXPERTISE

Manufacturer of endoscopy devices
Standard units and custom systems





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LIGHT SOURCE

XENON light source, 300W

1

Art.No.	Series (grey)	Description	UDI/GTIN
818-0018	X 300-M	Single 300 Watt xenon lamp, Storz adapter, manual light intensity control	04250369707317
818-0019	X 300-A	Single 300 Watt xenon lamp, Storz adapter, automatic light intensity control	04250369707324
818-0021	X 300-AT	Single 300 Watt xenon lamp, turret adapter, automatic light intensity control	04250369707348
818-1023	X 300-M-LED	300 Watt xenon lamp + Backup LED lamp, 2x Storz adapter, manual light intensity control	04250369707713
818-1021	X 300-A-LED	300 Watt xenon lamp + Backup LED lamp, 2x Storz adapter, automatic light intensity control	04250369707690
818-1028	X 300-AT-LED	300 Watt xenon lamp + Backup LED lamp, 2x turret adapter, automatic light intensity control	04250369707737

Art.No.	Series (blue)	Description	UDI/GTIN
818-0002	M-X 300-M	Single 300 Watt xenon lamp, Storz adapter, manual light intensity control	04250369707355
818-0004	M-X 300-A	Single 300 Watt xenon lamp, Storz adapter, automatic light intensity control	04250369707362
818-0005	M-X 300-AT	Single 300 Watt xenon lamp, turret adapter, automatic light intensity control	04250369707379
818-1024	M-X 300-M-LED	300 Watt xenon lamp + Backup LED lamp, 2x Storz adapter, manual light intensity control	04250369707720
818-1022	M-X 300-A-LED	300 Watt xenon lamp + Backup LED lamp, 2x Storz adapter, automatic light intensity control	04250369707706
818-1029	M-X 300-AT-LED	300 Watt xenon lamp + Backup LED lamp, 2x turret adapter, automatic light intensity control	04250369707744



LIGHT SOURCE

XENON light source, 300W

Technical Data

Lamp:	Main: <ul style="list-style-type: none">• Xenon arc lamp: 300 W• Daylight quality, 5600 K• Lifetime: 500 hr (expected)
	Backup (optional): <ul style="list-style-type: none">• White LED lamp• Daylight quality, 6500 K• Lifetime: > 20.000 hr
Light guide connection:	• Storz, Wolf, Olympus or turret adapter
Voltage range (current consumption):	• 100-240 V (300W light source: 370 VA)
Frequency:	• 50-60 Hz
Device protection:	• 2x T6,3 A
Video In (optional):	• 1x Video (automatic Version only)
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):	• 355mm x 120mm x 340mm
Weight:	• approx. 12,5 kg (300W)
Delivery contains:	• Light source, mains cable, user manual, BNC cable (optional)
Options:	• Automatic light intensity control • Backup LED lamp • Multi connector option, turret:

Wolf



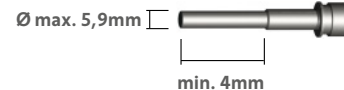
ACMI



Olympus



Storz



Exclusively pictured version!

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

1



Multi connector option:
Wolf, Storz, Olympus, ACMI



Multi connector option:
Wolf, Storz, Olympus, ACMI

LIGHT SOURCE

LED light source, typical CRI 90

Technical Data

LED module:	<ul style="list-style-type: none">• LED CRI 90, Daylight quality, approx. 5600 K• Lifetime: > 20.000 hr
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (130 VA)
Frequency:	<ul style="list-style-type: none">• 50-60 Hz
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A
Video In:	<ul style="list-style-type: none">• 1x Video, BNC
Other connections:	<ul style="list-style-type: none">• Service (RJ45)
Protection class (acc.to IEC 60601-1):	<ul style="list-style-type: none">• I
Safety class:	<ul style="list-style-type: none">• BF
IP code:	<ul style="list-style-type: none">• 20
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I
Dimensions (WxHxD):	<ul style="list-style-type: none">• 360mm x 125mm x 351mm (without Turret)
Weight:	<ul style="list-style-type: none">• approx. 5 kg
Delivery contains:	<ul style="list-style-type: none">• Light source, mains cable, user manual, BNC cable (optional)
Light guide connection:	<ul style="list-style-type: none">• Storz (standard connection):



• Turret, multi connector (optional):

Wolf



ACMI



Olympus



Storz

Ø max. 5,9mm



min. 4mm

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

1



LIGHT SOURCE

LED light source, typical CRI 70

Technical Data

LED module:	<ul style="list-style-type: none">• LED CRI 70, approx. 6500 K• Lifetime: > 20.000 hr
Light guide connection:	<ul style="list-style-type: none">• Storz
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (130 VA)
Frequency:	<ul style="list-style-type: none">• 50-60 Hz
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A
Video In:	<ul style="list-style-type: none">• 1x Video, BNC
Other connections:	<ul style="list-style-type: none">• Service (RJ45)
Protection class (acc.to IEC 60601-1):	<ul style="list-style-type: none">• I
Safety class:	<ul style="list-style-type: none">• BF
IP code:	<ul style="list-style-type: none">• 20
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I
Dimensions (WxHxD):	<ul style="list-style-type: none">• 360mm x 125mm x 351mm
Weight:	<ul style="list-style-type: none">• approx. 5 kg
Delivery contains:	<ul style="list-style-type: none">• Light source, mains cable, user manual, BNC cable (optional)

IMPORTANT:

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

ACCESSORIES - LIGHT SOURCES

SPARE LAMPS

Spare lamps	Description	Art.No.
300W Spare lamp	ILO 300W 5H, Xenon Lamp, 5-hole incl. heat transfer compound	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

ACCESSORIES - LIGHT SOURCES

FLEXIBLE FIBRE OPTIC CABLE

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 LW 35	3,5 mm	1800 mm	grey	890-0003
18 LW 48	4,8 mm	1800 mm	grey	890-0004
23 LW 35	3,5 mm	2300 mm	grey	890-0005
23 LW 48	4,8 mm	2300 mm	grey	890-0006
18 LC 35	3,5 mm	1800 mm	grey	891-0003
18 LC 48	4,8 mm	1800 mm	grey	891-0004
23 LC 35	3,5 mm	2300 mm	grey	891-0005
23 LC 48	4,8 mm	2300 mm	grey	891-0006
23 LC 35	3,5 mm	3000 mm	grey	891-0007
30 LC 48	4,8 mm	3000 mm	grey	891-0008
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



ACCESSORIES - LIGHT SOURCES





FLEXIBLE FIBRE OPTIC ADAPTER

1

Adapter source side	Description	Art.No.
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

HD camera, single chip (eco)

Art.No.	Series (grey)	Description	UDI/GTIN
853-0311	eco HD, 1-MOS	1/3" MOS (16:9), without recording system	04250369708086
853-0401	eco HD USB, 1-MOS	1/3" MOS (16:9), with recording system	04250369706952
740-2014	Camera head	ECO 1MOS HD, 1/3" eco, black, no buttons	04250369708123
740-2015	Camera head	Remote ECO 1MOS HD, 1/3" eco, black, 3 buttons	04250369708116

Art.No.	Series (blue)	Description	UDI/GTIN
853-0312	M-eco HD, 1-MOS	1/3" MOS (16:9), without recording system	04250369708130
853-0402	M-eco HD USB, 1-MOS	1/3" MOS (16:9), with recording system	04250369706969
740-2014	Camera head	ECO 1MOS HD, 1/3" eco, black, no buttons	04250369708123
740-2015	Camera head	Remote ECO 1MOS HD, 1/3" eco, black, 3 buttons	04250369708116

2



CAMERA

HD camera, single chip (eco)

Technical Data

Camera head:	<ul style="list-style-type: none">• Aspect ratio: 16:9• Image sensor: 1/3" CMOS• Immersible (using the attached cap)				
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (25 VA)				
Frequency:	<ul style="list-style-type: none">• 50-60 Hz				
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A				
Video system:	<ul style="list-style-type: none">• 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	<table><tr><td>Video out terminal:</td><td>Other connections:</td></tr><tr><td><ul style="list-style-type: none">• 1x HDMI</td><td><ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 2 x Remote OUT (video printer, video recorder,...)• 2 x RJ45 (Service)</td></tr></table>	Video out terminal:	Other connections:	<ul style="list-style-type: none">• 1x HDMI	<ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 2 x Remote OUT (video printer, video recorder,...)• 2 x RJ45 (Service)
Video out terminal:	Other connections:				
<ul style="list-style-type: none">• 1x HDMI	<ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 2 x Remote OUT (video printer, video recorder,...)• 2 x RJ45 (Service)				
Recording (optional)	<ul style="list-style-type: none">• Image format: JPG 1920 x 1080• Video format: Full HD 1920 x 1080; Mpeg-4 (H.264 Codec); Image rate 60fps• Connection: USB (A)				
Protection class (acc.to IEC 60601-1):	<ul style="list-style-type: none">• I				
Safety class:	<ul style="list-style-type: none">• BF				
IP code:	<ul style="list-style-type: none">• 20				
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2				
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I				
Features:	<table><tr><td><ul style="list-style-type: none">• White balance, boost function• On-screen-menu• 10 user settings storable• Multilingual menu</td><td><ul style="list-style-type: none">• 2.5 digital zoom• Freeze function• Character generator</td></tr></table>	<ul style="list-style-type: none">• White balance, boost function• On-screen-menu• 10 user settings storable• Multilingual menu	<ul style="list-style-type: none">• 2.5 digital zoom• Freeze function• Character generator		
<ul style="list-style-type: none">• White balance, boost function• On-screen-menu• 10 user settings storable• Multilingual menu	<ul style="list-style-type: none">• 2.5 digital zoom• Freeze function• Character generator				
Dimensions (WxHxD):	<ul style="list-style-type: none">• 360mm x 125mm x 351mm				
Weight:	<ul style="list-style-type: none">• approx.4,7 kg				
Delivery contains:	<ul style="list-style-type: none">• CCU, camera head with 3,05m (10ft) cable, mains cable, HDMI - DVI cable, HDMI cable, user manual				
Optional accessories:	<ul style="list-style-type: none">• Waterproof keyboard• Footswitch				

Camera head without push buttons



Weight: approx. 150g
Size: d= 36,5mm; l= 65mm
(without bending sleeve)

Camera head with push buttons



Weight: approx. 180 g
Size: d= 38mm; l= 79mm
(without bending sleeve)

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
740-2010	Camera head	Remote, 1MOS HD, 1/3" , black, 3 buttons	04250369706228

Art.No.	Series (blue)	Description	UDI/GTIN
853-0001	M-CAM1 HD, 1-MOS	1/3" MOS (16:9), without recording system	04250369708130
853-0402	M-CAM1 HD USB, 1-MOS	1/3" MOS (16:9), with recording system	04250369706969
740-2010	Camera head	Remote, 1MOS HD, 1/3" , black, 3 buttons	04250369706228

2



CAMERA

HD camera, single chip

Technical Data

Camera head:	<ul style="list-style-type: none">• Aspect ratio: 16:9• Image sensor: 1/3" CMOS• Immersible (using the attached cap)				
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (25 VA)				
Frequency:	<ul style="list-style-type: none">• 50-60 Hz				
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A				
Video system:	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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:	<table><tr><td>Video out terminal:</td><td>Other connections:</td></tr><tr><td><ul style="list-style-type: none">• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Video (PAL / NTSC)• 1x S-Video (PAL / NTSC)• 2x HD SDI (optional)</td><td><ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 1 x Remote OUT (videoprinter, videorecorder,...)• 1 x RJ45 (Service)</td></tr></table>	Video out terminal:	Other connections:	<ul style="list-style-type: none">• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Video (PAL / NTSC)• 1x S-Video (PAL / NTSC)• 2x HD SDI (optional)	<ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 1 x Remote OUT (videoprinter, videorecorder,...)• 1 x RJ45 (Service)
Video out terminal:	Other connections:				
<ul style="list-style-type: none">• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Video (PAL / NTSC)• 1x S-Video (PAL / NTSC)• 2x HD SDI (optional)	<ul style="list-style-type: none">• 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):	<ul style="list-style-type: none">• I				
Safety class:	<ul style="list-style-type: none">• BF				
IP code:	<ul style="list-style-type: none">• IP 20				
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2 / IEC 60601-1-1				
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I				
Features:	<ul style="list-style-type: none">• White balance, boost function, freeze function• On-screen-menu• 3 user settings storable• 2.5 digital zoom• Multilingual menu• Character generator				
Dimensions:	<ul style="list-style-type: none">• Control unit: 355mm x 103mm x 253mm (WxHxD); Weight: approx. 4,5 kg				
Delivery contains:	<ul style="list-style-type: none">• CCU, camera head with 3,05m (10ft) cable, Y/C cable, BNC cable, HDMI - DVI cable, HDMI cable, user manual				

Options

Features:	<ul style="list-style-type: none">• Image capture, video capture
Optional accessories:	<ul style="list-style-type: none">• Waterproof keyboard• Footswitch

Swift 1HD camera head



Weight: 105 g
Size: d= 34 mm; l= 73 mm

With push buttons

CAMERA

HD camera, 3chip

Art.No.	Series (grey)	Description	UDI/GTIN
852-0301	TRlstar HD, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, without recording system	04250369706853
852-0401	TRlstar HD USB, 3-MOS	3-Chip camera 3x1/3" MOS, Full HD, with recording system	04250369706877
740-2012	Camera head	Remote, 3MOS HD, 3x 1/3", black, 3 buttons	04250369706648

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
740-2012	Camera head	Remote, 3MOS HD, 3x 1/3", black, 3 buttons	04250369706648

2



CAMERA

HD camera, 3chip

Technical Data

Camera head:	<ul style="list-style-type: none">• Aspect ratio: 16:9• Image sensor: 3x 1/3" CMOS• Immersible (using the attached cap)				
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (50 VA)				
Frequency:	<ul style="list-style-type: none">• 50-60 Hz				
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A				
Video system:	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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	<table><tr><td>Video out terminal:</td><td>Other connections:</td></tr><tr><td><ul style="list-style-type: none">• 2x HD SDI• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Y/C (PAL / NTSC)• 1x CVBS (PAL / NTSC)</td><td><ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 1 x Remote OUT (videoprinter, videorecorder,...)• 1 x RJ45 (Service)</td></tr></table>	Video out terminal:	Other connections:	<ul style="list-style-type: none">• 2x HD SDI• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Y/C (PAL / NTSC)• 1x CVBS (PAL / NTSC)	<ul style="list-style-type: none">• 1 x USB (A) (USB-keyboard)• 1 x Remote IN (footswitch)• 1 x Remote OUT (videoprinter, videorecorder,...)• 1 x RJ45 (Service)
Video out terminal:	Other connections:				
<ul style="list-style-type: none">• 2x HD SDI• 1x HDMI / DVI• 1x Y-Pb-Pr (Component)• 1x Y/C (PAL / NTSC)• 1x CVBS (PAL / NTSC)	<ul style="list-style-type: none">• 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):	<ul style="list-style-type: none">• I				
Safety class:	<ul style="list-style-type: none">• BF				
IP code:	<ul style="list-style-type: none">• IP 20				
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2 / IEC 60601-1-1				
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I				
Features:	<ul style="list-style-type: none">• White balance, boost function, freeze function• On-screen-menu• 3 user settings storable• 2.5 digital zoom• Multilingual menu• Character generator				
Dimensions:	<ul style="list-style-type: none">• Control unit: 360mm x 125mm x 351mm; 4,5 kg				
Delivery contains:	<ul style="list-style-type: none">• CCU, camera head with 3,05m (10ft) cable, mains cable, Y/C cable, BNC cable, HDMI - DVI cable, HDMI cable, user manual				

2

Camera head with push buttons



Weight: 145 g
Size: d= 38,5 mm; l= 81 mm

Options

Features	<ul style="list-style-type: none">• Image capture, video capture
Optional accessories	<ul style="list-style-type: none">• Waterproof keyboard• Footswitch

CAMERA

UHD camera 4K, 3 chip

Art.No.	Series (grey)	Description	UDI/GTIN
854-0029	TRlstar 4K	3-Chip 4K camera, without recording system	04250369706709
854-0030	TRlstar 4K USB	3-Chip 4K camera, with recording system	04250369706655
740-2401	Camera head	Remote, 3MOS 4K, 3x 1/3", black, 4 buttons	04250369706662

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
740-2401	Camera head	Remote, 3MOS 4K, 3x 1/3", black, 4 buttons	04250369706662

2



Features

- 4K UHD resolution
- Zoom, freeze, smoke correction
- Image enhancement of colour and structure
- 10 USER Presets for surgical application
- Multilingual menu

CAMERA

UHD camera 4K, 3 chip

Technical Data

Camera head:	<ul style="list-style-type: none">• Aspect ratio: 16:9• Image sensor: 3x 1/3" CMOS• Immersible (using the attached cap)
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (60 VA)
Frequency:	<ul style="list-style-type: none">• 50-60 Hz
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A
Video system:	<ul style="list-style-type: none">• Image resolution: UHD 3840 x 2160• TV resolution: 1600 lines• White balance automatically, with data hold
Video output:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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, 1080/50i
Protection class (acc.to IEC 60601-1):	<ul style="list-style-type: none">• I
Safety class:	<ul style="list-style-type: none">• BF
IP code:	<ul style="list-style-type: none">• IP 20
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2 / IEC 60601-1-1
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I
Dimensions (WxHxD):	<ul style="list-style-type: none">• 360mm x 125mm x 351mm
Weight:	<ul style="list-style-type: none">• approx. 6,2kg
Delivery contains:	<ul style="list-style-type: none">• CCU, camera head with 3,05m cable (10ft), mains cable, HDMI cable, User manual

Options

- Image capture, video capture

TRistar 4K camera head

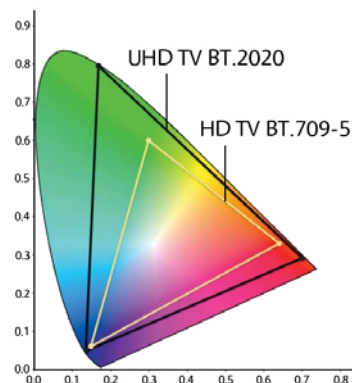


Weight: approx. 500g
Diameter: 43mm
Length: 85,7mm (without grommet)

With 4 push buttons

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)



TV ADAPTER

ACCESSORIES - CAMERAS

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
870-0040	TV-14 UHDWP, HE-design	Adapter f = 14.0 mm, c-mount, soakable	04250369707522
870-0041	TV-18 UHDWP, HE-design	Adapter f = 18.0 mm, c-mount, soakable	04250369707539
870-0042	TV-22 UHDWP, HE-design	Adapter f = 22.0 mm, c-mount, soakable	04250369707546
870-0043	TV-25 UHDWP, HE-design	Adapter f = 25.0 mm, c-mount, soakable	04250369707553
870-0044	TV-28 UHDWP, HE-design	Adapter f = 28.0 mm, c-mount, soakable	04250369707560
870-0046	TV-ILO Zoom 1530 UHD	Adapter, f = 15.0 - 30.0 mm, c-mount, soakable, blue/black	04250369707584
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	

TV ADAPTER

ACCESSORIES - CAMERAS



COMBINATION

LED 50-HD series

Art.No.	Series	Description	UDI/GTIN
862-2201	LED 50 HD-USB	LED light source, 1-MOS HD camera with recording system	04250369708178
862-2251	LED 50 HD	LED light source, 1-MOS HD camera without recording	04250369708161
740-2014	Camera head1	MOS HD, 1/3" eco, black, no buttons	04250369708123
740-2015	Camera head	Remote 1MOS HD, 1/3" eco, black, 3 buttons	04250369708116



3

Features

- Multifunctional system
- Camera and light source
- Recording option
- Full HD resolution
- Multilingual menu

COMBINATION

LED 50-HD series

Technical Data

Camera head:	<ul style="list-style-type: none">• Aspect ratio: 16:9• Image sensor: 1/3" CMOS• Immersible (using the attached cap)	Optional accessories: <ul style="list-style-type: none">• Waterproof keyboard• Footswitch
Voltage range (current consumption):	<ul style="list-style-type: none">• 100-240 V (95 VA)	
Frequency:	<ul style="list-style-type: none">• 50-60 Hz (interlaced scan)	
Device protection:	<ul style="list-style-type: none">• 2x T3,15 A	
Video system:	<ul style="list-style-type: none">• Image resolution: full HD 1920 x 1080• TV resolution: > 900 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)	<ul style="list-style-type: none">• Image format: JPG 1920 x 1080• Video format: Full HD 1920 x 1080; Mpeg-4 (H.264 Codec); Image rate 60fps• Connection: USB (A)	
Lamp:	<ul style="list-style-type: none">• LED lamp, comparable 50 W	
Light guide connection:	<ul style="list-style-type: none">• Storz	
Connections	Video out terminal: <ul style="list-style-type: none">• 1x HDMI	Other connections: <ul style="list-style-type: none">• 1x USB (Keyboard)• 1x Remote IN (footswitch)• 1x RJ45 (Service)• 1x Remote OUT (external devices)
Protection class (acc.to IEC 60601-1):	<ul style="list-style-type: none">• I	
Safety class:	<ul style="list-style-type: none">• BF	
IP code:	<ul style="list-style-type: none">• 20	
Standard:	<ul style="list-style-type: none">• IEC 60601-1-2	
Device classification (EU) 2017/745, annex VIII:	<ul style="list-style-type: none">• I	
Features:	<ul style="list-style-type: none">• White balance, boost function• On-screen-menu• 3 user settings storable	<ul style="list-style-type: none">• 2.5 digital zoom• Freeze function• Character generator
Dimensions:	<ul style="list-style-type: none">• Control unit: 295 x 128 x 278mm (WxHxD); Weight: approx. 5 kg	
Delivery contains:	<ul style="list-style-type: none">• CCU, camera head with 3,05m (10ft) cable, mains cable, HDMI cable, user manual	

Camera head without push buttons



Weight: approx. 150g
Size: d= 36,5mm; l= 65mm
(without bending sleeve)

Camera head with push buttons



Weight: approx. 180 g
Size: d= 38mm; l= 79mm
(without bending sleeve)

INSUFFLATOR

CO₂-INSUFFLATOR D-FLOW

Art.No.	Series	Description	UDI/GTIN
951-1080	DF-315	without heater	04250369603381
951-1081	DF-320	without heater	04250369602520
951-1082	DF-330	without heater	04250369602537
951-1083	DF-345	without heater	04250369603329
950-1061	DF-315-H	with heater	04250369603398
950-1062	DF-320-H	with heater	04250369602858
950-1063	DF-330-H	with heater	04250369602575
950-1064	DF-345-H	with heater	04250369602582



INSUFFLATOR

CO₂-INSUFFLATOR D-FLOW

Features

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

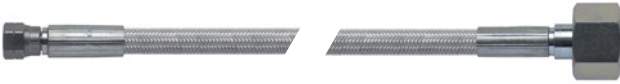
Technical Data

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, CO ₂ 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:	<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">- 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.• Differential pressure indicator: A colored LED array 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

INSUFFLATOR
ACCESSORIES



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