



# RZ Endoscopy DEVICES



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# CAMERA

## CAMERAS & VISUALIZATION



# 4K 3-Chip UHD Camera K4000

300-001-840

# 4K



## Features:

- 4K UHD resolution with 3-chip technology
- Image algorithm enhancement of color and structure
- 4K video recording
- 4K image saving
- Camera head with 4 programmable buttons
- Boost function
- Fog reduction
- Freeze function
- 2.5x digital zoom
- 10 USER mode configurations
- Multilingual on screen menu
- SDI 4K Output
- Text generator (optional with keyboard)

## DELIVERY CONTAINS:

- Main Unit (300-001-840)
- Camera head (300-001-841)
- HDMI cable
- USB Pen Drive
- Mains cable
- Operating manual

HYS LAP ENT URO SPINE

# CAMERA

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	60VA
<b>Image sensor</b>	3 MOS
<b>Resolution</b>	3840 x 2160 pixels (4K)
<b>Index ratio</b>	16:9
<b>N/N ratio</b>	54db

<b>Video outputs</b>	1x HDMI 4K 1x HDMI FullHD 1x SDI 4K 1x SDI FullHD
<b>Dimensions</b>	Control unit: 355 x 103 x 350mm (WxHxD) Weight control unit: 6.2kg Weight camera head: 145g

## Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



# 3 CHIP HD-CAMERA F4

300-001-804

PURE NATURAL COLORS 



**HYS** **LAP** **ENT** **URO** **SPINE**

## Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Colors technology
- Full HD video recording
- Full HD image saving
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

## DELIVERY CONTAINS:

- Main Unit (300-001-804)
- Camera head (300-001-802)
- YPbPr/RGB cable
- 2x BNC cable
- Jack Cable
- HDMI - DVI cable
- HDMI cable
- S-Video cable
- USB Pen Drive
- Mains cable
- Operating manual

# CAMERA

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power input</b>	20W
<b>Image sensor</b>	3 MOS
<b>Resolution</b>	1920 x 1080 pixels (FullHD)
<b>Image resolution</b>	>1000 TV lines, horizontal
<b>Index ratio</b>	16:9
<b>Min. sensitivity</b>	< 3lx (1/1.4)

## Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

## Video outputs

### Digital

2 x HD SDI  
1x HDMI / DVI 2x CVBS

### Analog

1 x YPbPr / RGB  
1 x Y/C (Pal/NTSC)  
1x CVBS (Pal/NTSC)

### Shutter speed

1/50 (1/60) to 1/100.000sec

### Dimensions

Control unit: 380 x 120 x 360mm (WxHxD)  
Weight control unit: 11kg  
Weight camera head: 145g



# HD-Camera F3 - High End

300-001-800

PURE NATURAL COLORS 



## Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Color technology
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

## DELIVERY CONTAINS:

- Main Unit (300-001-800)
- Camera head (300-001-802)
- YPbPr/RGB cable • 2x BNC cable • Jack Cable
- HDMI - DVI cable • HDMI cable • S-Video cable
- Mains cable • Operating manual

**HYS** **LAP** **ENT** **URO** **SPINE**



# CAMERA

## Technical data

Line voltage	100-240 VAC
Power input	20W
Image sensor	3 - Chip
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)

Video outputs	1 x HDMI / DVI 1 x YPbPr (Component) 1 x Y/C (Pal/NTSC) 1x CVBS (Pal/NTSC)
Shutter speed	1/50 (1/60) to 1/100.000sec
Dimensions	Control unit: 380 x 120 x360mm (WxHxD) Weight control unit: 11kg Weight camera head: 145g

## Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



# HD Camera F2 PRO

300-001-601



**HYS** **ENT** **URO** **SPINE**

## Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Full HD video recording
- Full HD image saving
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

## DELIVERY CONTAINS:

- Main Unit (300-001-601)
- Camera head with 3m cable (300-001-602)
- YPbPr/RGB cable • 2x BNC cable • HDMI - DVI cable
- HDMI cable • S-Video cable • Jack cable • USB Pen Drive
- Operating manual • Mains cable

# CAMERA

## Technical data

Line voltage	100-240 VAC
Power input	30W
Image sensor	1/3" MOS
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)

## Video outputs

2 x HD SDI (optional)  
1 x HDMI / DVI  
1 x Y-Pb-Pr (Component)  
1 x Video (PAL/NTSC)  
1 x S-Video (PAL/NTSC)

## Dimensions

Control unit: 380 x 120 x 360mm (WxHxD)  
Weight control unit: 11kg  
Weight camera head: 105g

## Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



# HD-Camera F1

300-001-600



**HYS** **ENT** **URO** **SPINE**

## Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

## DELIVERY CONTAINS:

- Main Unit (300-001-600)
- Camera head with 3m cable (300-001-602)
- YPbPr/RGB cable • 2x BNC cable • HDMI - DVI cable
- HDMI cable • S-Video cable • Jack cable
- Operating manual • Mains cable

# CAMERA

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power input</b>	20W
<b>Image sensor</b>	1/3" MOS
<b>Resolution</b>	1920 x 1080 pixels (FullHD)
<b>Image resolution</b>	>1000 TV lines, horizontal
<b>Index ratio</b>	16:9
<b>Min. sensitivity</b>	< 3lx (1/1.4)

## Optional available:



300-001-610  
Footswitch for HD Cameras,  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.

<b>Video outputs</b>	1 x HDMI 1 x YPbPr / RGB 1 x S-Video (Y/C; Pal / NTSC) 1 x Video (CVBS; Pal / NTSC)
<b>Dimensions</b>	Control unit: 380 x 120 x 360mm (WxHxD) Weight control unit: 11kg Weight camera head: 105g



# Camera Z2

300-001-410



## Features:

- Full HD camera with 1-chip technology
- Bright color technology
- Video and Picture recording
- Camera head with 3 programmable buttons
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu

## DELIVERY CONTAINS:

- Main Unit (300-001-410)
- Camera head (300-001-410.1)
- HDMI/DVI Cable
- HDMI cable
- 4GB USB Pen Drive
- Mains cable
- Operating manual

# CAMERA

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Image sensor</b>	1/3" MOS
<b>Resolution</b>	1920 x 1080 pixels (FullHD)
<b>Index ratio</b>	16:9
<b>Outputs</b>	1x HDMI
<b>Connections</b>	1x USB, 1x Remote IN 2 x Remote OUT, 2x RJ45

<b>Safety class (EN 60601-1)</b>	I
<b>Classification (EU 2017/745)</b>	I
<b>Application part</b>	BF
<b>Dimensions</b>	Control Unit: 380 x 132 x 378 mm (WxHxD) Camera Head: Ø 38 x 79mm
<b>Weight</b>	Control Unit: approx. 9kg Camera Head: 180g

## Optional available:



300-001-610  
Footswitch  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



# Camera Z1

300-001-400



## Features:

- Full HD camera with 1-chip technology
- Bright color technology
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu

## DELIVERY CONTAINS:

- Main Unit (300-001-410)
- Camera head (300-001-410.1)
- HDMI/DVI Cable
- HDMI cable
- Mains cable
- Operating manual



# CAMERA

## Technical data

Line voltage	100-240 VAC
Image sensor	1/3" MOS
Resolution	1920 x 1080 pixels (FullHD)
Index ratio	16:9
Outputs	1x HDMI
Connections	1x Remote IN 2 x Remote OUT, 2x RJ45

Safety class (EN 60601-1)	I
Classification (EU 2017/745)	I
Application part	BF
Dimensions	Control Unit: 380 x 132 x 378 mm (WxHxD) Camera Head: Ø 38 x 79mm
Weight	Control Unit: approx. 9kg Camera Head: 180g

## Optional available:



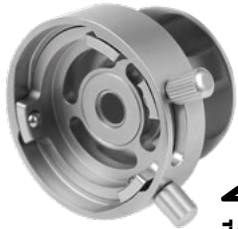
300-001-610  
Footswitch  
cable length: 2m



300-001-615  
Title generator keyboard, waterproof IP68  
US-Layout, cable 1.8m, color: grey  
305 x 140 x 15mm, 600gr.



## TV COUPLER



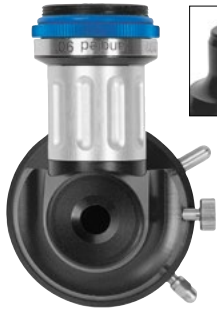
300-001-823 f=14mm  
300-001-824 f=25mm  
300-001-825 f=28mm  
c-mount, soakable

**4K**  
**FULL HD**



250-015-030  
Zoom-TV-Adapter  
f=15 - 30mm  
c-mount, soakable

**4K**  
**FULL HD**



250-020-025 F=25mm (splitting 90/10)  
250-020-030 F=30mm (splitting 90/10)  
Beamsplitter, allows simultaneous video  
and direct views, c-mount, soakable

**FULL HD**



300-001-813 f=14mm  
300-001-814 f=25mm  
300-001-815 f=28mm  
c-mount, soakable

**FULL HD**

# LIGHT SOURCE

## LIGHT SOURCES



# LUMEN LED 3 PRO

300-900-300

LED



## Features:

- 6500K daylight color temperature
- 375 Watt equivalent output power
- > 20.000 hours lifetime
- Turret connector for the most common light cables (Olympus, Wolf, Gyrus ACMI, Storz)
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Boost function: light increase of 20%

## DELIVERY CONTAINS:

- Main Unit (300-900-300)
- BNC cable (optional)
- Mains cable
- Operating manual

HYS LAP ENT URO SPINE

# LIGHT SOURCE

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Video input</b>	1x Video, BNC
<b>Protection class</b>	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
<b>Safety class</b>	BF
<b>Standard</b>	IEC 60601-1-2
<b>Dimensions</b>	380 x 120 x 360mm (WxHxD)
<b>Weight</b>	approx. 11kg



# LUMEN LED 1

300-900-180

LED



## Features:

- More than 20.000h lamp lifetime
- 180 Watt equivalent power output
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Daylight color temperature 6000 – 6500° K for accurate color representation
- Boost function: light increase of 20%

## DELIVERY CONTAINS:

- Main Unit (300-900-180)
- BNC cable
- Mains cable
- Operating manual

HYS ARTH ENT URO SPINE

# LIGHT SOURCE

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	130VA
<b>Video input</b>	1x Video, 1x S-Video (Y/C) (automatic version only)
<b>Protection class</b>	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
<b>Safety class</b>	BF
<b>Dimensions</b>	380 x 120 x 360mm (WxHxD)
<b>Weight</b>	approx. 11kg



# LUMEN X 7

300-001-308



## Features:

- Automatic and manual light intensity control
- 2 turret adapters
- 300 Watt daylight quality
- > 500h XENON lamp lifetime
- Powerful 300 Watt XENON glow-discharged lamp fixed in a reflector, calibration is not necessary
- Mechanical diaphragm is used to adjust the output intensity without influencing the colour temperature.
- Easy lamp replacement
- 150 Watt LED backup lamp guarantees continuous working even in the event that the main XENON lamp becomes inoperative

## DELIVERY CONTAINS:

- Main Unit (300-001-308)
- BNC cable
- Mains cable
- Operating manual

HYS LAP ENT URO SPINE



# LIGHT SOURCE

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	370W
<b>Video input</b>	1 x VBS (1Vpp/75Ω), BNC
<b>Protection class</b>	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
<b>Safety class</b>	BF
<b>Dimensions</b>	380 x 125 x 360mm (WxHxD)
<b>Weight</b>	approx. 11kg



300-001-301  
XENON Spare Lamp  
300 Watt



# LUMEN X 5

300-001-305



HYS LAP ENT URO SPINE

## Features:

- Automatic light intensity control
- > 500h lamp lifetime
- Turret adapter
- Powerful 300 Watt XENON glow-discharged lamp fixed in a reflector, calibration is not necessary
- Mechanical diaphragm is used to adjust the output intensity without any influence on the colour temperature
- Easy lamp replacement

## DELIVERY CONTAINS:

- Main Unit (300-001-305)
- BNC cable
- Mains cable
- Operating manual

# LIGHT SOURCE

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	370W
<b>Video input</b>	1 x VBS (1Vpp/75Ω), BNC
<b>Protection class</b>	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
<b>Safety class</b>	BF
<b>Dimensions</b>	380 x 125 x 360mm (WxHxD)
<b>Weight</b>	approx. 11kg



300-001-301 300Watt  
XENON Spare Lamp



# LUMEN X 3

300-001-300



## Features:

- Manual light intensity control
- > 500h lamp lifetime
- Powerful 300 Watt XENON glow-discharged lamp fixed in a reflector, calibration is not necessary
- Mechanical diaphragm is used to adjust the output intensity without any influence on the colour temperature

## DELIVERY CONTAINS:

- Main Unit (300-001-300)
- Mains cable
- Operating manual

HYS ENT URO SPINE

# LIGHT SOURCE

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	370W
<b>Protection class</b>	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
<b>Safety class</b>	BF
<b>Dimensions</b>	380 x 125 x 360mm (WxHxD)
<b>Weight</b>	approx. 11kg



300-001-301 300Watt  
XENON Spare Lamp



# LIGHT GUIDE CABLES



Adaptor pieces to use with **endoscope**



250-042-000  
RZ/Storz/Olympus



250-040-000  
Wolf



250-041-000  
ACMI/British Standard

XENON/LED Light Guide Cables  
with melt and bending protection

250-025-230 Ø 2.5 mm, 2300 mm

250-025-300 Ø 2.5 mm, 3000 mm

250-035-180 Ø 3.5 mm, 1800 mm

250-035-230 Ø 3.5 mm, 2300 mm

250-035-300 Ø 3.5 mm, 3000 mm

250-048-180 Ø 4.8 mm, 1800 mm

250-048-230 Ø 4.8 mm, 2300 mm

250-048-300 Ø 4.8 mm, 3000 mm

Adaptor pieces to use with **light source**



250-039-000  
RZ/Storz



250-038-000  
ACMI/CUDA



250-048-000  
Luxtec



250-051-000  
Stryker



250-037-000  
Wolf



250-044-000  
Olympus



250-045-000  
Olympus - Standard



250-052-000  
Heine



250-059-000  
Pentax

## COMPATIBILITY NOTE:

A fiber optic cable with a large diameter should not be connected to a smaller diameter scope.

For example: Ø 4.8mm fiber optic cables connected to a Ø 2.9mm may risk high temperature at the light entry of the endoscope and may risk patient safety.

# INSUFFLATION

## INSUFFLATION DEVICES



# AIRFLOW A2/3/4

- 300-900-020 20L/min
- 300-900-021 20L/min, with heating unit
- 300-900-030 30L/min
- 300-900-031 30L/min, with heating unit
- 300-900-040 40L/min
- 300-900-041 40L/min, with heating unit



## Features:

- User-friendly interface
- Highest safety standard for patients
- All units are available with or without CO<sub>2</sub> heating system
- Pre-insufflation mode for use with Verres Cannulas
- Non-heating unit have the same gasflow rates as heating unit models

## DELIVERY CONTAINS:

- Main Unit (300-900-020/-021/030/-031/-040/-041)
- Sterile Filter (300-902-007)\* (TP Product)
- Wrench Set (300-902-006)
- CO<sub>2</sub> High Pressure Tube (300-902-003)
- Standard Silicone Tube (300-902-005)
- Silicone Tube (300-902-004), only Heater-Version
- Gas Heater with tube (300-902-001), only Heater-Version
- Operating manual • Mains cable



# INSUFFLATION

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	25 - 40W 25-105W (with gas heating) max. 0.4A (max. 1A with gas heating)
<b>Frequency</b>	50 - 60Hz
<b>Insufflation pressure</b>	1 - 30mmHG
<b>Gas flow</b>	1-20L/min (300-900-020 / -021) 1-30L/min (300-900-030 / -031) 1-45L/min (300-900-040 / -041)



Optional available:  
300-902-008  
CO<sub>2</sub> Bottle, 0.75kg, empty

<b>Gas connection</b>	UNF 7/16" male
<b>Gas type</b>	Medical Grade Carbon Dioxide
<b>Dimensions</b>	380 x 120 x 360 mm (WxHxD)
<b>Weight</b>	11kg



# AIRFLOW A2/3/4 ACCESSORIES

Included in the set



Sterile Filter  
300-902-007



Wrench Set (SW30/SW17)  
300-902-006



CO<sub>2</sub> High Pressure Tube  
300-902-003



Standard Silicone Tube  
300-902-005



Silicone Tube (only Heater-Version)  
300-902-004



Gas heater with tube (only Heater-Version)  
300-902-001

# SUCTION & IRRIGATION

## SUCTION & IRRIGATION SYSTEMS



# LAP Suction and Irrigation Pump P3000

300-000-300



## Features:

- Double roll pump for precise suction and irrigation during Laparoscopic surgeries
- Optional footswitch available
- Digital display of actual suction and irrigation pressures
- High flow rates up to 3L/min
- Color coded tubing sets
- Standby function
- Hand remote controlled

## DELIVERY CONTAINS:

- Pump device (300-000-300)
- Cannula 5mm (300-000-302)
- Cannula 10mm (300-000-303)
- Silicone Tubing Set (300-000-301)
- Tube Adapter (300-000-304)
- Pneumatic Control Handle (300-000-305)
- Double-Lumen Control Tube (300-000-306)
- Mains cable • 2 Spare fuses • Operating manual

# SUCTION & IRRIGATION

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power input</b>	36W
<b>Irrigation power</b>	0 - 3.000ml/min
<b>Suction power</b>	0 - 3.000ml/min
<b>Max. pressure</b>	0 - 750mmHg
<b>Measurements</b>	380 x 130 x 400mm (WxHxD)
<b>Weight</b>	approx. 11kg

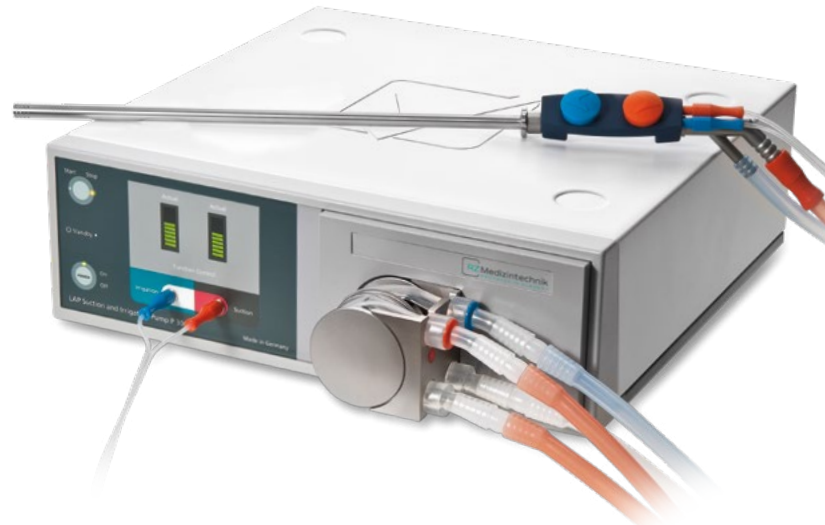
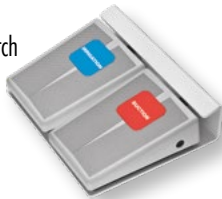
## Optional available:

300-000-308

Adapter with instrument connector, autoclavable

300-000-307

Pneumatic double footswitch



# LAP Suction and Irrigation Pump P1000

300-000-100



## Features:

- Dual suction and irrigation vacuum pump
- Digital display of suction and irrigation pressures
- High rates up to 3L/min
- Color coded tubing sets
- Standby function
- Low noise level
- Hydrophobic disposable filters

## DELIVERY CONTAINS:

- Pump device (300-000-100)
- Suction and irrigation tubing set (300-000-102)
- Aspiration bottle 2L with overflow valve (300-000-101)
- Puncture tube 235mm (300-001-521)
- 2 Hydrophobic disposable sterile filters (300-000-103)
- 2 Bottle Holders with screws
- Mains cable
- 2 Spare fuses
- Operating Manual

# SUCTION & IRRIGATION

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power input</b>	80VA
<b>Irrigation power</b>	3L/min
<b>Suction power</b>	3L/min
<b>Max. vacuum</b>	- 525mmHG
<b>Max. pressure</b>	0 - 750mmHG
<b>Measurements</b>	380 x 120 x 360mm (WxHxD) with Aspiration Bottle Retainers approx. 440 x 120 x 360mm
<b>Weight</b>	Device: approx. 11kg Aspiration Bottle-Retainer: (for 1 Liter = 0.34kg, for 2 Liter = 0.44kg)

Optional available:



# ARTHRO/URO/HYS Pump P1

225-906-000 for Arthroscopy  
253-910-000 for Urology  
351-100-200 for Hysteroscopy



## Features:

- Irrigation Pump for different indications
- Pump leveling adjustment
- Pressure controlled roller pump

## DELIVERY CONTAINS:

- Pump device (225-906-000/253-910-000/351-100-200)
- Tubing set (225-910-001)
- Mains cable
- 2 Spare fuses
- Operating manual



# SUCTION & IRRIGATION

## Technical data

<b>Line voltage</b>	100-240 VAC
<b>Power input</b>	80VA
<b>Irrigation power</b>	Arthroscopy: 0 - 1.5L/min Urology: 0 - 1.0L/min Hysteroscopy: 0 - 0.5L/min
<b>Pressure range</b>	Arthroscopy: 10 - 150mmHG Urology: 10 - 150mmHG Hysteroscopy: 10 - 200mmHG
<b>Measurements</b>	380 x 130 x 400mm (WxHxD)
<b>Weight</b>	approx. 11kg

## Accessories (Arthroscopy)

<b>225-910-001</b>	Irrigation Tubing Set, silicone, autoclavable	non-sterile	included
<b>225-910-002</b>	Irrigation Tubing Set, PVC, 20 pieces, daily tube	sterile	optional
<b>225-910-003</b>	Patient tube, PVC, 2.5m, 40 pieces	sterile	optional

## Accessories (Urology)

<b>253-910-001</b>	Irrigation Tubing Set, silicone, autoclavable	non-sterile	included
<b>253-910-002</b>	Irrigation Tubing Set, PVC, 20 pieces, daily tube	sterile	optional
<b>253-910-003</b>	Patient tube, PVC, 2.5m, 40 pieces	sterile	optional

## Accessories (Hysteroscopy)

<b>253-910-001</b>	Irrigation Tubing Set, silicone, autoclavable	non-sterile	included
<b>253-910-002</b>	Irrigation Tubing Set, PVC, 20 pieces, daily tube	sterile	optional
<b>253-910-003</b>	Patient tube, PVC, 2.5m, 40 pieces	sterile	optional





# HF SURGERY

## HF SURGERY DEVICES



# HF UNIT G400

700-350-400 230V  
700-350-410 110V



## Features:

- Monopolar/bipolar cutting and coagulation
- Automatic identification of connected instruments
- Powerstart System simplifies the beginning of cutting process
- Automatic power regulation
- 105 different memory locations in 7 groups
- Various output configuration of the sockets available
- 10" Touchscreen
- Tiltable display
- Footswitch (optional)
- Available with Argon and / or the RZeal
- Real-time output monitoring

## DELIVERY CONTAINS:

- Main Unit
- Mains Cable  
(Footswitch not included)

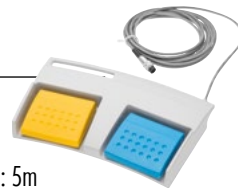
HYS LAP ENT URO SPINE

# G400

## Technical data

Line voltage	110-230 VAC
Power consumption	500W
Generator operation frequency	333kHz
Display	TFT 10"
Defibrillation impulse resistance	acc. to EN 60601-1
NEM system	neutral electrode control optical indication 7 levels required resistance < 240 $\Omega$
Gas type	pure argon 4.8 (99,998%) or higher
Inlet gas pressure	0.25-0.4 [MPa]
Monopolar coagulation	200W
Monopolar cutting	400W
Bipolar coagulation	400W
Bipolar cutting	400W

Optional available:  
700-350-405  
2-Button-Footswitch, length: 5m  
700-350-402  
3-Button-Footswitch, length: 5m, quick access key



Gas outflow	0.1-10 l/min, regulated 0.1 l/min in whole range
Pressure range	reducer (0.4 MPa) on argon cylinder
Vessel sealing system	9 effects/300W
AutoStop	automatic stop of sealing process after achieving the optimal effect
Dimensions	495 x 415 x 225mm (LxWxH)
Weight	12.2kg



# HF UNIT G44

700-340-400 230V  
700-340-410 110V



## Features:

- Monopolar/bipolar cutting and coagulation
- Automatic instrument detection system
- Intuitive Touchscreen
- Automatic power regulation
- Configurable working modes
- Real-time parameter control
- Special endoscopic modes
- Bipolar resection
- Easy software update

## DELIVERY CONTAINS:

- Main Unit
- Mains Cable  
(Footswitch not included)

**HYS** **URO** **ARTH**

# G44

## Technical data

<b>Line voltage</b>	110-240 VAC
<b>Power consumption</b>	1100VA
<b>Generator operation frequency</b>	333kHz
<b>Display</b>	TFT 7" WVGA
<b>Spectrum result system</b>	automatic power regulation
<b>Monopolar coagulation</b>	max. 200W (200 $\Omega$ )
<b>Monopolar cutting</b>	max. 400W (100 $\Omega$ )
<b>Bipolar coagulation</b>	max. 400W (25 $\Omega$ )
<b>Bipolar cutting</b>	max. 330W (150 $\Omega$ )

Optional available:  
700-350-405  
2-Button-Footswitch, length: 5m

700-350-402  
3-Button-Footswitch, length: 5m, quick access key



## NEM system

neutral electrode control,  
optical indication,  
required resistance < 240  $\Omega$

**Dimensions** 385 x 305 x 141mm (LxWxH)

**Weight** 7kg







# SHAVER

## ARTHROSCOPY SHAVER



# STUNNER S1

227-001-100 110-230V



## Features:

- Open window calibration of shaver blades
- 9 oscillation modes
- Forward / Backward 500 - 8000rpm
- Controlled by handpiece or by footswitch
- Fully autoclavable, small and ergonomic handpiece
- Dedicated shaver blades



## DELIVERY CONTAINS (complete Set 227-001-110):

- Main Unit (227-001-101)
- Handpiece, without blade (227-001-102)
- Footswitch (227-001-103)
- Mains Cable

# SHAVER

## Technical data STUNNER S1 UNIT

<b>Line voltage</b>	100-240 VAC
<b>Power consumption</b>	20 - 35VA
<b>Speed range</b>	FWD, REV: 500 - 8000 RPM (+/- 10%) OSC: 500 - 3500 RPM (+/- 10%)
<b>Oscillation modes</b>	9
<b>Dimensions</b>	380 x 360 x 125 (WxDxH)
<b>Weight</b>	7.62kg

## Technical data HANDPIECE

<b>Buttons</b>	ON/OFF, window calibration, direction change (FWD, OSC, REV) change of oscillation modes
<b>Dimensions</b>	164mm, 3m cable length
<b>Weight</b>	350g

## Technical data FOOTSWITCH

<b>Functions</b>	Speed Up, Speed Down, START/STOP, Window Size, Direction (FWD, OSC, REV)
<b>Dimensions</b>	280 x 215 x 28(WxDxH), 3.2m cable length

Hand Piece  
227-001-102



Footswitch  
227-001-103



STUNNER S1 Unit,  
110 - 230V  
227-001-101





# LITHOTRIPSY

## LITHOTRIPSY DEVICES



# LITHOTRIPTER L 100

253-750-100



## Features:

- Pure mechanical energy transmission
- The smallest probe diameter of 0.6mm
- Auxiliary instruments can also be inserted
- Very simple handling and cleaning
- Compatible to other RZ and other instruments for the therapy of ureteric, renal and bladder stones
- Non-conductive hand piece to ensure safety for patients as well as users

## DELIVERY CONTAINS:

- Main Unit (253-750-100)
- Operating manual
- Mains cable

# LITHOTRIPSY

## Technical data

<b>Line voltage</b>	115-230 VAC
<b>Pneumatic power source</b>	3.5 – 6.5 bar, compressed medical air
<b>Pulse rate control (ppm)</b>	50 – 600 ppm 10 ppm increments between 50 - 100 ppm 50 ppm increments between 100 - 600 ppm

<b>Dimensions</b>	254 x 113 x 305mm (WxHxD)
<b>Weight</b>	6.5kg



Optional available:  
253-750-010  
Air compressor, 4 bar maximum



# LITHOTRIPTER L100 ACCESSORIES



Litho Probe, 605mm working length

253-850-006 0.6mm

253-850-008 0.8mm

253-850-010 1.0mm

253-850-016 1.6mm

253-850-020 2.0mm, 450mm length

253-850-025 2.5mm, 450mm length

253-750-150  
Footswitch



253-750-200  
Hand piece, anodised





# MONITORS

## MONITORS



# MONITORS



300-001-168  
Endovue 32" HD Monitor

300-001-158  
Endovue 24" HD Monitor

## Technical data

Screen size	31.5" / 24" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	16.7 Million (8-bit)
Video Inputs	DVI-D, RGBS/VGA/YPbPr (HD-15 or DVI-I via adapter), S-Video, Composite
Video Outputs	DVI-D
Weight	8.8kg (300-001-168) 6.7kg (300-001-158)



300-001-232  
Radiance 32" HD Monitor

300-010-226  
Radiance 27" HD Monitor

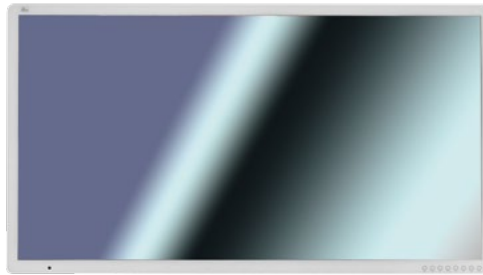
## Technical data

Screen size	32" / 27" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.07 Billion (10-bit)
Video Inputs	DVI-I and 3G-SDI Input/Output
Video Outputs	DVI-D
Weight	11.0kg (300-001-232) 8.9kg (300-010-226)

# MONITORS



300-001-031  
UHD 4K Monitor, 31"



300-001-055  
UHD 4K Monitor, 55"

## Technical data

Screen size	31" diagonal
Resolution	4096 x 2160
Aspect ratio	17:9
Viewing angle	178°
Number of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0 1 x DP 1.2 (SST) & 1 x DP 1.2 (MST) 1 x DVI (single link), 4 x SDI (3G)
Video Outputs	1 x DP 1.2 (SST) 1 x DVI (single link), 4 x SDI (3G)
Weight	10.5kg

## Technical data

Screen size	55" diagonal
Resolution	3840 x 2160
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0, 2 x DP 1.2 (55T) 1 x DVI (single link), 2 x DVI (dual link) 4 x SOi (3G), 2 x SOi (12G)
Video Outputs	1 x DVI (single link), 1 x DP 1.2 (SST) 4 x SDI (3G), 2x SDI (12G)
Weight	37.35kg

# DOCUMENTATION SYSTEM

300-001-199

RZ Medical Workstation PRO (with DICOM worklist)

300-001-198

RZ Medical Workstation (without DICOM worklist)



Features:

- Stand-alone device
- Recording of videos and pictures
- PACS support DICOM worklist/store
- Playing videos with abstraction of individual images
- Manual editing of comments for sessions and recordings
- Graphical marking tools
- Creation of reports incl. patient information, pictures, videos and comments
- Full-text search in data base
- User management including import, adaption and export of patients
- LIVE OR communication via e.g. Zoom, Skype or Teams
- Hospital Safety guidelines (Windows based network and firewall)

# WORKSTATION

## Technical data

<b>Classification</b>	Class 1 according to 93/42/EWG
<b>Video format</b>	MPEG2, DV-AVI
<b>Video resolution</b>	Input signal: 640x480 pixels (NTSC), 768x576 pixels (PAL), 1920x1080 pixels (Full HD) Stored video: 720x480 pixels (NTSC), 720x576 pixels (PAL), 1920x1080 pixels (Full HD) Stored picture: 640x480 pixels (NTSC), 768x576 pixels (PAL), 1920x1080 pixels (Full HD)
<b>Audio standard</b>	MPEG2: MP3 DV-AVI: PCM
<b>Audio resolution</b>	16bit, 44.1/48 kHz stereo
<b>File format</b>	Video: MPEG2, DV-AVI Picture: BMP/JPEG Report: HTML/JPEG
<b>Storage space</b>	Video: max. 2 MB/s (PAL/NTSC), max. 6 MB/s (FullHD) Picture: max. 8 MB
<b>Labelling</b>	EMC classification: 1B CE according to MPG

<b>Surface</b>	Aluminium-silicate glass, scratch and impact resistant
<b>Mainboard</b>	Processor Intel® Core i5 (6th gen.), 8 GB RAM, mSATA 240 GB SSD
<b>Connections</b>	2x RJ-45 10/100/1000 MBit 1x RS232, 4x USB 3.0 1x DP, 1x HDMI
<b>TFT Module</b>	Size/resolution: 21", 1920 x 1080 pixels, 16:9 Brightness: 250 cd/m <sup>2</sup> Contrast: 1000:1 Viewing angle: 178°
<b>Dimensions</b>	520 x 340 x 58mm (WxHxD)
<b>Weight</b>	ca. 7kg



# TROLLEY / TOWER



300-002-001  
RZ High-End Trolley

300-001-999  
RZ Basic Trolley

## Features:

- 4 storage cart with drawer
- Optional main on/off switch
- Power columns for cables
- Endoscope Holder
- Variable height support arms
- Conductive rolls
- Optional doors and rear panel in order to protect valuable equipment
- More options available on request

# TROLLEY / TOWER



300-900-918  
High-End Tower  
System Set

- 300-001-840 K4000 4K UHD Camera System
- 300-900-300 LUMEN LED 3 PRO
- 300-000-300 LAP Pump P3000
- 300-900-041 AIRFLOW A4 Insufflator with heating unit
- 300-001-031 RZ 4K Monitor, 31"
- 300-001-198 RZ 21" Documentation System
- 300-002-001 RZ High-End Trolley



300-900-919  
Medium-End Tower  
System Set

- 300-001-600 HD Camera F1
- 300-001-305 LUMEN X5 Xenon Light Source
- 300-000-100 LAP Pump P1000
- 300-900-030 AIRFLOW A3 Insufflator
- 300-010-226 RZ Radiance Ultra 27" Monitor
- 300-001-999 RZ Basic Trolley



300-900-920  
Basic Line Tower  
System Set

- 300-001-410 Camera Z2
- 300-900-180 LUMEN LED1 Light Source
- 300-000-100 LAP Pump P1000
- 300-900-020 AIRFLOW A2 Insufflator
- 300-001-148 RZ iLumen LED EndoVue SE
- 21.5" Monitor
- 300-001-999 RZ Basic Trolley

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class I, are marked with CE G297.

