



## RZ Endoscopy Devices



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CAMERAS  
& VISUALIZATION



# 4K 3-Chip UHD Camera K4000

300-001-840

# 4K



HYS LAP ENT URO SPINE

### 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

### Technical data

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

### 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.

# CAMERA

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



# 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

### Technical data

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

# CAMERA

### 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 



**HYS LAP ENT URO SPINE**

### 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

### 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)

### 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.



# CAMERA

Video outputs	1 x HDMI / DVI 1 x YPbPr (Component) 1 x Y/C (Pal/NTSC) 1 x 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





### 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

### 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)

### 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 x140 x 15mm, 600gr.

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





### 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

### Technical data

Line voltage	100-240 VAC
Power input	20W
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)

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





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

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 USB, 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.





300-001-400



**HYS URO ENT**

### 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

### 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.



# LIGHT SOURCE

## 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 SOURCES



Standby  
LUMEN LED 3 PRO  
Light Guide  
Intensity 075  
Down Up Man / Auto  
Made in Germany  
Pure Daylight Quality

RZ Medizintechnik  
ANALOGUE & DIGITAL



# LUMEN LED 3 PRO

300-900-300



HYS LAP ENT URO SPINE

# LIGHT SOURCE

### Features:

- 6500K daylight color temperature
- 375 Watt equivalent output power
- > 20.000 hours lifetime
- Turret connector for the most common light cables (Olympus, Wolf, Gyros 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

### Technical data

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



# LUMEN LED 1

300-900-180

LED



HYS ARTH ENT URO SPINE

# LIGHT SOURCE

## 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

## Technical data

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





## 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

## Technical data

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

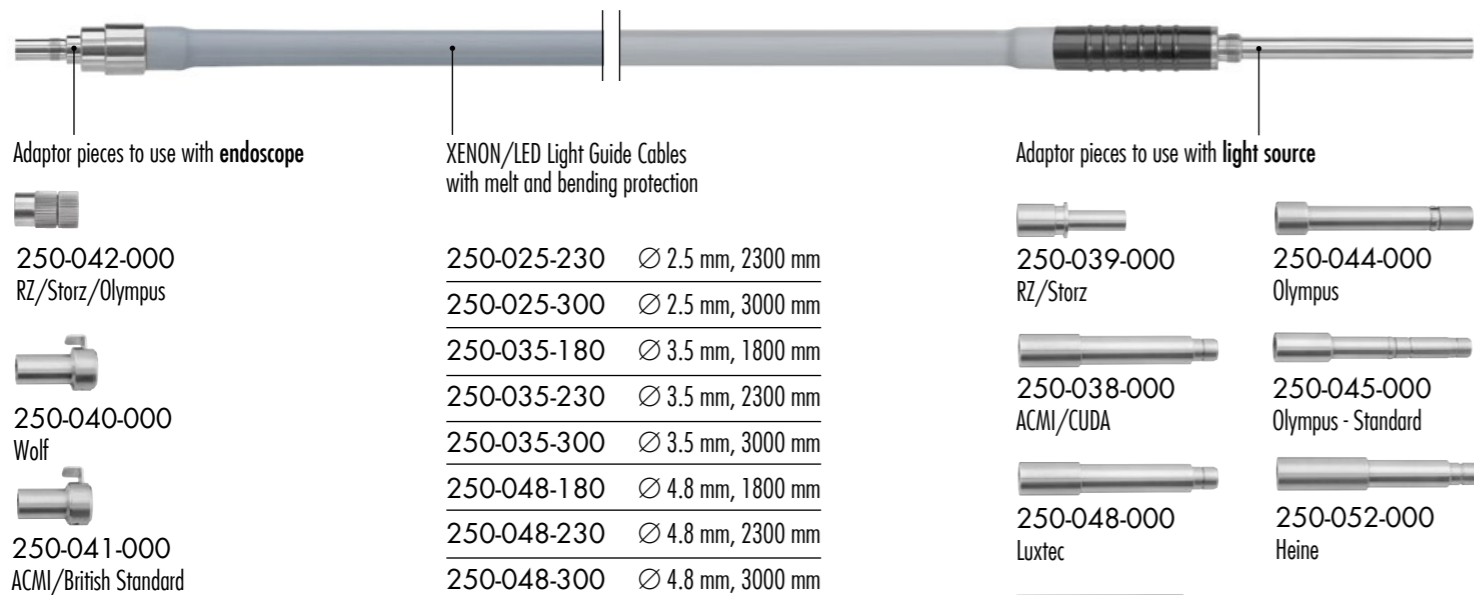


300-001-301  
XENON Spare Lamp  
300 Watt





## 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 45L/min
- 300-900-041 45L/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

### Technical data

Line voltage	100-240 VAC
Power consumption	25 - 40W 25-105W (with gas heating) max. 0.4A (max. 1A with gas heating)
Frequency	50 - 60Hz
Insufflation pressure	1 - 30mmHG
Gas flow	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

# INSUFFLATION

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



Included in the set



**T** 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

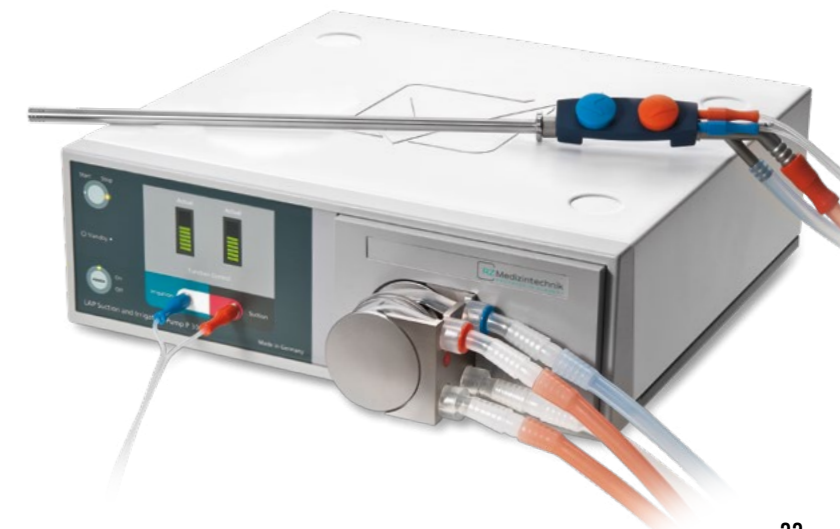
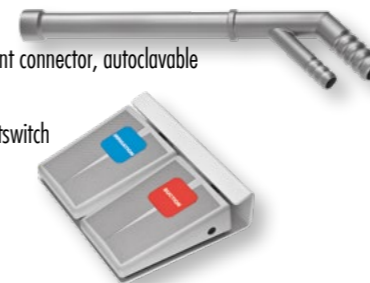
# SUCTION & IRRIGATION

### Technical data

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

Line voltage	100-240 VAC
Power input	80VA
Irrigation power	3L/min
Suction power	3L/min
Max. vacuum	- 525mmHG
Max. pressure	0 - 750mmHG
Measurements	380 x 120 x 360mm (WxHxD) with Aspiration Bottle Retainers approx. 440 x 120 x 360mm
Weight	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



**ARTH HYS URO**

### 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

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

### Accessories (Arthroscopy)

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

### Accessories (Urology)

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

### Accessories (Hysteroscopy)

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



## HF SURGERY DEVICES

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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

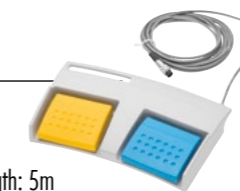
### DELIVERY CONTAINS:

- Main Unit
- Mains Cable  
(Footswitch not included)

### Technical data

Line voltage	110-230 VAC
Power consumption	500W
Generator operation frequency	333KHZ
Display	TFT 10"
Defibrillation impulse resistance	acc. to to EN 60601-1
NEM system	neutral electrode control optical indication 7 levels required resistance < 240 Ω
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



HYS URO ARTH

# G44

### 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)

### Technical data

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

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 Ω
Dimensions	385 x 305 x 141mm (LxWxH)
Weight	7kg



## ARTHROSCOPY SHAVER

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# 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

## Technical data STUNNER S1 UNIT

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

Hand Piece  
227-001-102



Footswitch  
227-001-103



## Technical data HANDPIECE

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

## Technical data FOOTSWITCH

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

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



## LITHOTRIpsy DEVICES

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# LITHOTRIPTER L100

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

### Technical data

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



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

# LITHOTRIPSY

Dimensions	254 x 113 x 305mm (WxHxD)
Weight	6.5kg





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





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)



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

### 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



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

### 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)

### 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

## WORKSTATION

<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





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



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



RZ Medizintechnik GmbH

Unter Hasslen 20/22  
78532 Tuttlingen, Germany

+49 7462 9470-0

sales@rz-medizintechnik.com  
www.rz-medizintechnik.com



**Trade Product Symbol**  
Products marked with this symbol are not available with RZ-marking, and not the CE sign/CE number of RZ.



**CE-Symbol**  
All Products with no Trade Product marking, are sold with the CE of RZ. Products which are classified higher than class I, are marked with CE G297.

