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Progress in Surgery

1 CHIP CAMERA SYSTEM Z1



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DIGITAL CAMERA SYSTEM

The new Z1 Endoscopic Camera is a universal system suitable for both diagnostics and surgery. The 1 CCD technology generates clear pictures with a high resolution and natural colors. The digital Anti Moiré filter automatically eliminates disturbing distortions when using flexible endoscopes such as Naso-Pharyngoscopes. The lightweight camera head ensures a fatigue-free working, specially in Urology, Hysteroscopy, Arthroscopy and ENT procedures. All features of the camera can be directly controlled and set up on a menu which is shown on the monitor.



300-001-400
Camera Z1

Delivery contains:

- CCU • Camera head • USB cable • Composite cable
- YPbPr/RGB cable • BNC cable • Jack cable
- Mains cable • User manual



Lightweight, watertight camera head included



On a menu controlling



Splash-proofed, easy-to-use display



Skid-proof pedestals



Wide input/output possibilities on the back

TECHNICAL DATA



General data

Mains voltage	100-240 VAC, 50-60 Hz
Power consumption	20W
Mains fuses	2 Fine fuses, 5x20mm, delay acting 3,15 AH, 250V with high breaking capacity (I _a = 1500 A)
Dimensions	<ul style="list-style-type: none">• Control unit: 380 x 120 x 360 mm (WxHxD)• Camera head without keys, watertight: d=29mm, l=58mm
Weight	<ul style="list-style-type: none">• Control unit: 11 kg• Camera head (without cable): 80g, without keys
TV-System	PAL / NTSC
Resolution	active pixels: <ul style="list-style-type: none">• 752 H x 582 V• 768 H x 494 V
TV resolution	470 lines
Sensitivity	1 lux (1/1.4)
AGC	automatically
Shutter	automatically, shutter-speed: <ul style="list-style-type: none">• PAL: 1/50 bis 1/100.000 sec.• NTSC: 1/60 bis 1/100.000 sec.
White balance	automatically, with data-hold
Lichtmessung	<ul style="list-style-type: none">• Integral (Standard)• PEAK• WINDOW, Window size and position can be set via OnScreen-Display

Camera head

Aspect ratio	4:3
CCD Image sensor	1/3" CCD

Connections

Video ports	<ul style="list-style-type: none">• 2 x CVBS (1V_{pp}/75Ω), BNC• 2 x Hosiden (Y/C), Mini-DINconnection• 1 x YPbPr• 1 x SDI
Misc.	<ul style="list-style-type: none">• 1 x Remote IN• 2 x Remote OUT• 1 x Service (RJ45)

Storage / operation conditions

Storage conditions	-20°C to +60°C
Operating conditions	+10°C to +40°C
Rel. humidity	Storage: 10% to 90% Operation: 30% to 75%
Air pressure	Storage : 600 mbar to 1300 mbar Operation : 700 mbar to 1060 mbar

Classification / Conformity

Class / Type	1 / BF
Manufactured/tested according to	IEC 601-1ff, EN 60601-1ff
CE marking according to	MDD 93/42/EEC