

## Visual Lap-Top CP-201



**Lap-Top Video equipment for medical endoscopic practice with multiple functions**

**Camera, light source and monitor in one compact housing**

**Brilliant image reproduction**

**USB-Stick for image storage and transfer to a Computer**

Technical data		
TV-System	NTSC	PAL
<b>Display:</b>		
Type	SVGA TFT LCD	
Active screen size	10,4 inches(264mm) diagonal	
Pixel pitch	0.26 mm x 0.26 mm	
Pixel format	800 horiz. By 600 vert. pixels	
Luminance,White	250 cd/m <sup>2</sup> (typ)	
<b>Camera:</b>		
Image Sensor	High resolution Interline transfer 1-CCD-1/3"	
Active Pixel	758 (H) x 492 (V)	752 (H) x 582 (V)
Active Image Area	4,8 (H) x 3,7 (V) mm (equivalent to 1/3")	
Scanning Lines	525	625
Scanning System	2:1 Interlaced	
Sync System	Internal	
Scanning Frequency (H)	15.743 kHz	15.625 kHz
Scanning Frequency (V)	59,94 Hz	50 Hz
Aspect Ratio	4:3	
Illumination	Standard	: 2.500 lux F8 (3.000K)
	Minimum	: 3 lux / F 1.4 (AGC on)
Video output	2 x FBAS	
Resolution (H)	470	470
Resolution (V)	350	430
Signal / Noise Ratio	> 46 dBp-p	
High-Speed-Shutter	Automatic Shutter Control max. Shutter Speed is 1/100.000 sec.	
White balance	semi-automatic, storable	
BLC	ON / OFF with different window sizes	

Technical data	
Features	White Balance, BLC Window-Size, Brightness, Head soakable
Cable length	3m
<b>Light source:</b>	
Type	newest LED Light technology
Lamp Power	effective 3W
Color temperature	> 5000K / bright white
Live time	> 5000 Hours
Features	Adaptation on standard Endoscope Light guide connector, Brightness control, Head soakable
Cable length	3m
<b>USB Capture:</b>	
Storage system	PNG Format ( ISO/IEC 15948:2003) License free
Storage type	USB Flash Drive (STICK from 16 MB up to 4 GB)
Triggering	Camerahead- or Frontpanel- switch

<b>Technical data</b>	
<b>Generally:</b>	
Power Supply	100-250 V AC / 50 - 60 Hz
Power consumption	Max. 50 W
Fuse	2 x T 3,15A – 250V
Weight	Control unit :4 kg Camera head :100g /250g (with cable and connector) LED head :100g /200g (with cable and connector)
Dimensions	Control unit : (BxHxD) 320 x 250 x 85 mm closed (290mm opened) Camera head : (ØxL) 36 x 70 mm LED head : (ØxL) 30 x 70 mm
Operating Temperature	+4°C to + 40 °C
Storage Temperature	-20°C to + 45 °C
Relative humidity	30% to 90%
<b>Security:</b>	
Protection class	I
Classification	BF without function group with 1 Patient circuit
Test standard	DIN EN 60601-1, DIN EN 60601-1-2, MPG