

iLED

Modular Videoscope System



Interchangeable Videoscope
Excellent image quality
Integrated LED
Precise and tactile articulation control

Interchangeable lenses
Ergonomic handle
High Resolution 5" LCD
Temperature resistant up to 140 degree



iCapture DVR

iLED Scalable Modular Videoscope System

- Documentation unit
- 24/7 Operation
- Interchangeable with all Borescopes
- High-resolution 5" LCD screen
- Image capture, video recording to SD Card
- AC or rechargeable battery DC Operation
- Interchangeable Videoscopes
- Operable by left/right handed users
- Excellent image quality
- Interchangeable lenses
- Integrated LED
- Ergonomic handle
- Precise and tactile articulation control
- Temperature resistant up to 140°C
- Variable video interface
- Compact and versatile
- Water & dust resistant
- Easy to carry, easy to setup, light in weight
- Compact case IATA standard



Objective				
PROBE	DOV	FOV	DOF	CODE
4.0mm	0°	60°	7-50mm	
4.0mm	0°	90°	15mm-∞	
4.0mm**	90°	60°	5-45mm	SVTA
Interchangeable Objective				
PROBE	DOV	FOV	DOF	CODE
6.0mm	0°	60°	5mm-∞	BLACK
6.0mm	0°	60°	8mm-∞	YELLOW-B
6.0mm	0°	90°	5mm-∞	RED
6.0mm	0°	120°	3mm-∞	GREEN
6.0mm**	90°	60°	5-15mm	SVTA-CF
6.0mm**	90°	60°	15-50mm	SVTA-FF
PROBE	DOV	FOV	DOF	CODE
8.0mm	0°	28°	25mm-∞	BLUE
8.0mm	0°	60°	5mm-∞	BLACK
8.0mm	0°	60°	8mm-∞	YELLOW-B
8.0mm	0°	90°	8mm-∞	SILVER-B
8.0mm	0°	90°	5mm-∞	RED
8.0mm**	90°	60°	5mm-∞	SVTA

Operating unit	
Display:	5.0" (12.7cm) TFT colour/nonreflecting
Operating system:	Real-time operating system, with on-screen menu
User interface:	Direct action keys / function keys / arrow keys
Languages:	English, German, Polish, French, Spanish, Italian, Turkish
Video interface:	Composite video-out (BNC)
Power supply, primary:	Rechargeable Li-ion battery
Power supply, secondary:	12V adapter (optional accessory)
Documentation	
Saving/recording:	Video recording Direct image capturing / Freeze modus MPEG4 (.avi)
Video format:	(with time and date stamp)
Image format:	BMP (.bmp) (with time and date stamp) Could be converted to JPG at PC
Storage:	SDHC memory card up to 32GB (FAT32) 8GB /SDHC in device when delivered

Measurement	
Method	Comparative Measurement
Camera control	
Inegration modes:	automatic frame integration standard / manuell / short / long Factory default or user defined
White balance:	Adjustable
AGC level (gain control):	Adjustable
Gamma:	Adjustable
Image control	
Zoom:	3.5X / 16 step variable
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Colour:	Adjustable
Text annotation:	Built-in text overlay generator
Construction	
Ergonomics:	rotatable display unit
System weight:	1,12kg
Dimensions:	205mm X 180mm X 70mm
Housing:	Rugged PU, with integrated rubber shock caps

Operating environment			
System operating temp.:	-13°F to 115°F (-25°C to +50°C)		
Storage temperature:	-13°F to 140°F (-25°C to +60°C)		
Protection Class:	IP 53		
Relative humidity:	95% max. - non condensing		
Probe			
Sensor image:	High Resolution 1/6" Image Sensor		
Resolution:	total 752 x 582 px / 440.000 pxls		
Diameter:	4.0mm	6.0mm	8.0mm
Working length:	4.9 - 13.1ft (1.5 - 4.0m)	4.9 - 13.1ft (1.5 - 7.5m)	4.9 - 13.1ft (1.5 - 7.5m)
Articulation (bending neck):	4-way / 360°	4-way / 360°	4-way / 360°
Integrated objective lens:	X	-	-
Interchangeable objective lens:	-	X	X
Side view tip adapter:	X (with 60° FOV lens)	X	X
Braid:	Multi-layer tungsten braid on PU jacket		
Interchangeable Objective Lens:	X		
Side View Tip Adapter:	X		
Braid:	Multi-layered tungsten braid		
Protection Class:	IP 53		

Illumination	
Tip:	High Power LED
Average lamp lifetime:	approx. 15.000 h
Operating environment	
Tip operating temperature:	-13°F to 176°F (-25°C to +80°C) (284°F/140°C less than 5 Minutes)
Storage temperature:	-13°F to 140°F (-25°C to +60°C)
Relative humidity:	95% max. - non condensing
Protection Class:	IP 55
Waterproof:	Probe and distal end up to 14.7 psi (1 bar- 10.2m H2O) Hydrostatic head of 5 meters
Resistance:	Probe and distal end to oils, saline (5%) and petroleum fluids

MADE IN GERMANY

IT Concepts designs and manufactures worldwide with over 500 highly qualified and motivated employees electronic and optomechanical assembly groups and systems.

The product range extends from individual components for industrial and medical endoscopes over to video endoscopic systems and solutions for Remote Visual Inspection and Security.

For more than 10 years IT Concepts develops and produces all endoscopes „Made in Germany“ at the European headquarters Lahnau near Wetzlar, the City-of-Optics.

The top priority for the entire team in Lahnau is to provide customers with expertise and excellent service

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