

The World's Smallest CCD Video Cameras for Endoscopy

1.8mm and 3mm
Miniature CCD Video Cameras



Medigus™
Advancing the Science of Endoscopy

1.8mm and 3mm Miniature CCD Video Cameras

Medigus offers miniature color CCD video cameras for endoscopy in 3mm x 3mm and 1.8mm x 1.8mm sizes, the latter being the smallest CCD video camera in the world. Each camera system includes (1) a miniature camera head with optics plus camera cable and (2) a video processor box with touch panel keypad.

The cameras are ready-for-integration into endoscopes and are suitable as visualization devices for companies that wish to develop their own flexible and rigid video endoscopes. The uniquely designed camera head allows for decreased endoscope diameters for visualizing hard-to-access areas of the human anatomy.

The cameras are the proprietary technology of Medigus. All cameras and optics are assembled at Medigus' facilities, in clean rooms designed specifically for this purpose. State-of-the-art optical testing equipment is utilized throughout the assembly process.

The cameras are used in existing endoscopes of many corporations including some of the major players in the medical device industry. In addition, Medigus offers endoscope design and manufacturing services, using its cameras as well as other proprietary technologies for endoscopy.

Features of the camera systems

1. Small packaging of camera head specially designed for small diameter video endoscopes.
2. Ready for integration into an endoscope.
3. Durable camera system suitable for reusable medical applications.
4. Completely waterproof.
5. Fully sterilizable.
6. Designed for integration into IEC60601-1, IEC 60601-2-18 and IEC60601-1-2 compliant medical devices.

Applications

1. Medical applications such as gastroscopy, colonoscopy, ERCP, arthroscopy, laparoscopy, bronchoscopy, gynecology, urology and ENT.
2. Industrial applications such as remote non-destructive testing.



Specifications		
Model	IntroSpicio™ 110 Camera System (includes 3mm x 3mm camera head plus video processor box)	IntroSpicio™ 115 Camera System (includes 1.8mm x 1.8mm camera head plus video processor box)
Image pick-up device	CCD	CCD
Effective pixels	291,000	120,000
Resolution	500H X 582V	326H X 382V
Video outputs	S-Video (PAL/NTSC) Composite (PAL/NTSC) VGA	S-Video (PAL/NTSC) Composite (PAL/NTSC) VGA
System functions	White Balance, Automatic Gain Control, Color Correction, Brightness Control, Freeze, Print.	White Balance, Automatic Gain Control, Color Correction, Brightness Control, Freeze, Print.
Power input	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz
Camera head housing	Titanium/Stainless Steel	Titanium/Stainless Steel
Field of View	140°	100°
Dimensions	<Camera head> Size: 3mm x 3mm Length: 15mm including optics <Camera cable> Length: up to 5 meters. <Video processor box> 290mm(W) x 80mm(H) x 270mm(D)	<Camera head> Size: 1.8mm x 1.8mm Length: 12mm including optics <Camera cable> Length: up to 5 meters <Video processor box> 290mm(W) x 80mm(H) x 270mm(D)

Medigus is approved to ISO 13485:2003, ISO 9001:2000 and Annex II of the Medical Devices Directive (CE Marking) and is registered with the FDA.

Medigus™

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