

OLYMPUS®

Your Vision, Our Future

EVIS EXERA II VIDEO SYSTEM CENTER

OLYMPUS CV-180

EVIS
EXERA II

*Experience the new standard in
endoscopic imaging with this advanced
HDTV compatible video processor*



Main Features

- Equipped with high resolution HDTV imaging capability to provide the best possible image quality for endoscopes and laparoscopes, enabling observation of capillaries, mucosal structures, and other patterns.
- Compatible with EVIS 100/130/140 Series and EVIS EXERA 160 Series endoscopes as well as bronchoscopes and surgical endoscopes (EndoEYE videoscopes, flexible VISERA videoscopes, and 1CCD/3CCD camera heads).
- NBI (Narrow Band Imaging) to enhance the visibility of capillaries and other structures on the mucosal surface.
- Two types of structure enhancement are available — the original Type A for observation of larger mucosal structures with high contrast and the new Type B for observation of smaller structures, such as capillaries.
- Electronic magnification enlarges moving images at the touch of a button on the scope or on the keyboard by 1.2X or 1.5X.
- HD/SD SDI output for high-quality video image transfer.
- Convenient digital-to-digital recording of both still and moving images. Still images are stored on xD cards via PC card adapter, and moving images are stored on digital video recorders via IEEE 1394 (FireWire, DV, iLINK) using remote control switches.
- Automatic Iris eliminates the need for switching between Peak and Average required in conventional manual adjustment.
- Picture-in-picture display for any combination of endoscopic images, fluoroscopic images, ultrasound images, laparoscopic images, and images from the endoscope position detecting unit.
- Convenient index display for documentation.
- Scope ID function for easier endoscopy suite management and for next-generation system expansion.



Specifications

Observations	HDTV signal output	Either RGB or YPbPr output can be selected		
	SDTV signal output	VBS composite (PAL), Y/C and RGB; simultaneous output possible.		
	White balance adjustment	White balance adjustment is possible using the white balance switch on the front panel.		
	Standard color chart output	A color bar chart can be displayed.		
	Color tone adjustment	The following color tone adjustments are possible. Red, Blue, Chroma adjustment; ± 8 steps		
	Automatic gain control (AGC)	The image can be electrically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.		
	Contrast	The image contrast can be set to one of the following three modes (N, H, L). • N (Normal): Normal image. • H (High): The dark areas are darker and the bright areas are brighter than in the normal image. • L (Low): The dark areas are brighter and bright areas are darker than in the normal image.		
	Iris	The auto iris modes can be selected. Peak: For use when observing by focusing on a small bright area. Auto: For use when observing by focusing on the image center.		
	Image enhancement setting	Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected.		
	Switching the enhancement modes	The enhancement level can be selected from 4 levels (OFF, 1, 2 and 3).		
	Image size selection	The size of endoscopic image can be changed.		
	Reset to defaults	The following settings can be reset to their defaults. • User preset • Image source • Color tone • Freeze • Release index • Zoom • Special light observation • Arrow pointer • Stop watch • Character on screen • Exposure • PinP		
	Freeze	An endoscopic image is frozen.		
	Remote control	The following ancillary equipment can be controlled. (Specified models only) • VCR • Video printer • Image filing system • Endoscopic ultrasound center, etc.		
Documentation	Patient data	The following data can be displayed on the monitor by keyboard. • Patient ID No. • Patient name • Sex • age • Date of birth • Date of recording (time, stopwatch) • Image frame No. • Videotape recorder mode • Display image setting • Physician name • Comments		
	Advance registration of patient data	The following data of up to 40 patients can be entered prior to surgery. • Patient ID No. • Patient name • Sex • age • Date of birth • Physician		
	Media	xD-Picture Card (1G/512/256/128/64/32/16 MB), specified by Olympus. MAPC-10 can be used as PC card adapter.		
Memory card	Recording format	TIFF: no compression, SHQ: approx. 1/5, HQ: approx. 1/7, SQ: approx. 1/10.		
	Number of recording images	In 16 MB, SDTV/HDTV, TIFF: approx. 30/6 images, SHQ: approx. 310/110 images, HQ: approx. 2000/760 images, SQ: approx. 2570/430 images.		
	Monitor output	Using the monitor out switches on the front panel, it is possible to select an image from the endoscope or ancillary equipment for display on the monitor.		
Image recording and playback	Setting memory	The following setting are held in memory even after the video system center is turned OFF. • White balance • Iris mode • Enhancement • Image size • Color tone		
	Classification as medical electrical equipment	Type of protection against electric shock Class I		
	Degree of protection against electric shock of applied part	Depend on applied part. See also applied part (Camera head videoscope).		
Power supply	Degree of protection against explosion	The video system center should be kept away from flammable gases.		
	Voltage (Voltage fluctuation)	220~240V AC (Within $\pm 10\%$)		
	Frequency (Frequency fluctuation)	50/60 Hz (Within $\pm 1\%$)		
Size	Fuse rating	5A, 250V	Current consumption	150 VA
	Dimensions	382 (W) \times 91 (H) \times 490 (D) mm	Fuse size	$\phi 5 \times 20$ mm
			Weight	10.5kg

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.



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OLYMPUS®

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EVIS EXERA II XENON LIGHT SOURCE

OLYMPUS CLV-180

EVIS
EXERA II

High-intensity 300-watt light source delivers the illumination to drive HDTV and a new Narrow Band Imaging feature enhances visualization capabilities





Main Features

- Equipped with specially coated filters for NBI (Narrow Band Imaging). (Only for GI)
- Lamp can be turned on/off without turning off the equipment.
- Automatically adjusts light intensity to achieve ideal illumination for observation of the gastrointestinal tract.
- Powerful 300-watt xenon lamp.
- Backlit front panel indicators and controls improve operability.



Specifications

Automatic brightness control	Automatic brightness control method	Servo-diaphragm method
	Automatic exposure	17 steps
Air feeding	Pump	Diaphragm type pump
	Pressure switching	Four levels available (off, low, mid, high)
Water feeding	Method	Air pressurization or detachable water container
Indicators on front panel	Emergency lamp	Reports absence of emergency lamp, disconnection and use of emergency lamp.
	NBI mode	Lights in green under normal observation and lights in white under the NBI observation.
	OP.1	Lights if a special filter is installed in the light source.
Setting memory		Settings (except filter setting) are stored even when the light source is OFF.
Illumination	Examination Lamp	Xenon short-arc lamp (ozone-free) 300 W
	Average lamp life	Approx. 500 hours of continuous use (with intermittent use, the lamp life may vary slightly.)
	Ignition method	Switching regulator
	Brightness adjustment	Light-path diaphragm control
	Cooling	Forced-air cooling
	Color conversion	Possible using special-purpose filter
	Emergency lamp	Halogen lamp (within mirror) 12 V 35 W
	Average emergency lamp life	Approximately 500 hours
Classification as medical electrical equipment	Type of protection against electric shock	Class I
	Degree of protection against electric shock of applied part	Depends on applied part. See also applied part (Camera head or videoscope).
	Degree of protection against explosion	The light source should be kept away from flammable gases.
Power supply	Voltage	100–120 VAC
	Voltage fluctuation	Within ±10%
	Frequency	50/60 Hz
	Frequency fluctuation	Within ±1Hz
	Consumption of electric power	500 VA
	Fuse rating	8 A, 250 V
	Fuse size	5 mm x 20 mm
Size	Dimensions	383 (W) × 162 (H) × 536 (D) mm (maximum)
	Weight	15.4 kg

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