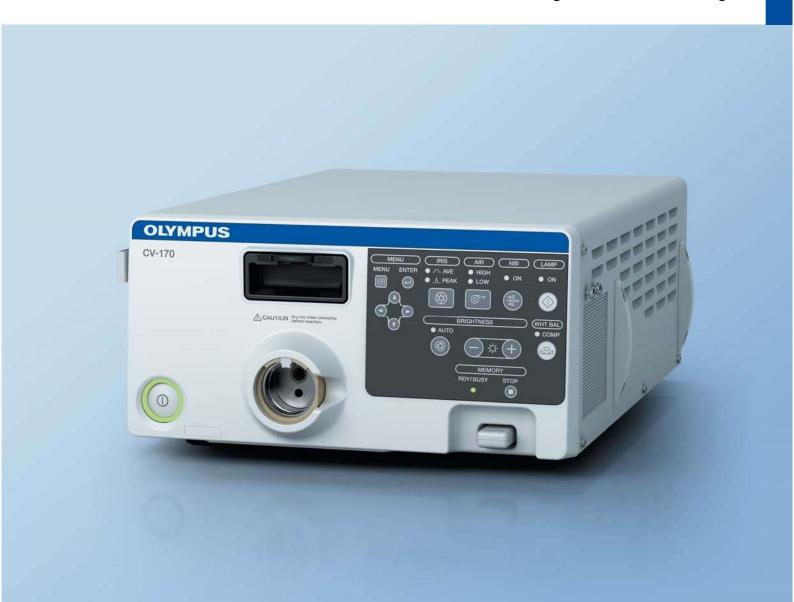


Optera

VIDEO SYSTEM CENTER

CV-170

Combination of HDTV and NBI is now available with an LED light source in one design



OLYMPUS CV-170



Main Features

- HDTV imaging capability provides the best possible image quality for endoscopes, enabling observation of capillaries, mucosal structures, and other patterns.
- NBI (Narrow Band Imaging) enhances the visibility of capillaries and other structures on the mucosal surface.
- Newly adopted long-life LED light source minimizes lamp replacement, while reducing energy and noise.
- The pre-freeze function selects the clearest still image automatically. It may help to save time and eliminate the physician's frustration.
- Two types of structure enhancement are available mainly, the conventional Type A is ideal for observation of larger mucosal tissues with high contrast in the lower gastrointestinal tract, while the new Type B is suitable for observation of vascular tissues in the upper gastrointestinal tract.

- Portable memory (MAJ-1925) is compatible, which is the standard for data management. Simply connect and upload.
- Compatible with EVIS 100/130/140 Series, Actera 150 Series, EVIS EXERA 160 Series, EVIS EXERA II 180 Series and GI/BF/VISERA Series scopes.
 - *Please note that there are some exceptions.
- 16:9 and 16:10 output for a HDTV monitor is available.
 Compatible with analog, HD-SDI, and DVI output.



Specifications

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Power Supply	Voltage	100-240 V AC (NTSC)/220-240 V AC (PAL); within ±10%
	Frequency	50/60 Hz; within ±1 Hz
	Rated input	200 VA
Size	Dimensions (W x H x D)	295 x 145 x 425 mm
	Weight	11.0 kg
Classification	Type of protection against electric shock	Class I
(medical electrical	Degree of protection against electric shock of applied part	Depend on applied part. Also refer to applied part (camera head or videoscope).
equipment)	Degree or protection against explosion	The video system center should be kept away from flammable gases.
Observation	Examination lamp	LED lamp
	Analog HDTV signal output	Either RGB (1080/60l: NTSC)/(1080/50l: PAL) or YPbPr (1080/60l: NTSC)/(1080/50l: PAL) output can be selected.
	Analog SDTV signal output	VBS composite (480/60l: NTSC)/(576/50l: PAL), Y/C (480/60l: NTSC)/(576/50l: PAL), and RGB (480/60l: NTSC)/(576/50l: PAL); simultaneous outputs possible.
	Digital signal output	HD-SDI (SMTPE 292M), SD-SDI (SMPTE 259M) and DVI (WUXGA, 1080p or SXGA) can be selected.
	White balance adjustment	White balance adjustment is possible using the white balance button on the front panel.
	Standard color chart output	The "Color bar" or the "50% white" screen can be displayed.
		The following color tone adjustments are possible.
	Color tone adjustment	Red adjustment: ±8 steps • Blue adjustment: ±8 steps • Chroma adjustment: ±8 steps
	Automatic gain control (AGC)	The image can be electronically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.
		The image contrast can be set to one of the following three modes (N. H. L).
	Contrast	The image contact can be set to one or the following intermouse, (i, i, i, j, i, i). N (Normal): Normal image • H (High): The dark areas are darker and the bright areas are brighter than in the normal image.
	Contact	L (Low): The dark areas are brighter and bright areas are darker than in the normal image.
	Noise reduction	Noise is corrected by image processing.
	11000104451011	The auto iris modes can be selected using the "iris mode" switch on the front panel.
	Iris	The add this modes can be selected using the first mode switch of the industrial response to the properties of the prope
	110	Average: The brightness is adjusted based on the average brightness of the endoscopic image. Average: The brightness is adjusted based on the average brightness of the endoscopic image.
		Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness.
	Image enhancement setting	rine patents or euges in use intoscopte intages can be enhanced electricary or increase the magyes starpness. Either the structural enhancement or edge enhancement can be selected according to the user setup.
	mage ormanooment setting	Structural enhancement of contrast of the fine patterns in the image, • Edge enhancement: Enhancement of edges of the endoscopic image.
	Switching the enhancement modes	The enhancement level can be selected from 3 levels (1, 2, and 3).
	Image size selection	The size of the endoscopic image can be changed using the "IMAGE SIZE" key on the keyboard.
	Freeze	An endoscopic image is frozen using an endoscope or the "FREEZE" key on the keyboard.
	Pre-freeze	The image with the least blur is selected from the images captured in the set time period before freeze operation and displayed.
	NBI observation	This is one of optical-digital observations using the narrow band observation light.
		The following settings can be reset to their defaults.
	Reset to defaults	Color tone • Iris mode • Image enhancement mode • Image size • Contrast • Freeze • Release index • Electronic zoom
		Optical-digital observation • Arrow pointer • Stopwatch • Characters on screen • Brightness
		The following ancillary equipment can be controlled (specified models only).
	Remote control	DVR • Video printer • Image filling system • Flushing pump • Endoscopic CO, regulation unit
Documentation		The following data can be displayed in the endoscopic image screen.
	Patient data	Patient ID Patient name Sex Age Date of birth Date of recording (time, stopwatch) Comments
		The recording state of the following ancillary equipment can be displayed on the monitor.
	Displaying the record state	Portable memory and internal buffer • DVR • Video printer • Image filing system
		The following data can be displayed on the monitor.
	Displaying the image information	Structure enhancement level Edge enhancement level Zoom ratio Color mode
		Up to 50 patient's data can be registered.
	Advance registration of patient data	Patient ID • Patient name • Sex and age • Date of birth
Portable Memory	Media	MAJ-1925 (OLYMPUS)
	Recording format	**ITF: no compression * JPEG (1/5): approx. 1/5 compression * JPEG (1/10): approx. 1/10 compression
	Number of recording images	*TIFF: approx. 227 images * JPEG (1/5): approx. 1024 images * JPEG (1/10): approx. 2048 images
	User settings	Up to 20 user settings can be registered.
Memory Backup	V	The following settings are held in memory even after the video system center is turned OFF.
	Memorization of selected setting	The following settings are lief in the lindy even after the video system certain is turied orr. • Color tone • Iris mode • Image enhancement mode • Color enhancement mode • Contrast • AGC • Color mode • White balance
		Brightness adjustment method • Brightness • Air feeding
	Lithium battery	Life: 5 years
	Eronom battory	Line o your

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

