



## EVIS EXERA III VIDEO SYSTEM CENTER







## **Main Features**

- NBI (Narrow Band Imaging) in EVIS EXERA III 190 Series scopes provides twice the viewable distance of EVIS EXERA II 180 Series scopes and offers significantly brighter images.
- CV-190 features the ability to switch the point of focus between 'near' and 'normal' with the push of a button.
- The newly designed, waterproof one-touch connector enables a one-step connection to the light source and does not require a separate scope cable for the video processor.
- New and improved image processing delivers sophisticated image quality via enhanced color reproduction, minimized image noise, and reduced halation.
- The pre-freeze function selects the clearest still image automatically, saving time.
- The CV-190 is compatible with EVIS 100/130/140/150 Series, EVIS EXERA 160 Series, EVIS EVERA II 180 Series, GI/BF/ VISERA Series scopes, and EVIS EXERA III 190 Series.

- 16:9 and 16:10 outputs for a HDTV monitor are available. The system is compatible analog, HD-SDI, and DVI output.
- A link connection to peripheral devices avoids complicated cable connections and accelerates transmission speed.
- The Olympus documentation system enhances networking expandability.
- Picture-in-picture and index functions effectively enhance your observation.
- The system is compatible with portable memory, which is standard for data management; simply connect and upload.
- The CV-190 supports DV output to compatible documentation devices.



## **Specifications**

-	Voltage	100-240 V AC (NTSC)/220-240 V AC (PAL); within ±10%
Power Supply Size	Frequency	100-240 YAC (KTSU)/220-240 YAC (FAL), With ±10% 50/60 Hz; Within ±1 Hz
	Consumption electric power	30/00 Hz, within ±1 Hz 150 VA
	Dimensions (W x H x D)	Jou vn 370 x 85 x 455 mm; 382 x 91 x 489 mm (maximum)
	Weight	370 X 60 X 430 mm, 362 X 91 X 469 mm (maximum) 10.7 kg
	Type of protection against electric shock	10.7 Ng Class I
Classification (medical electrical		
equipment)	Degree of protection against electric shock of applied part Degree or protection against explosion	Depends on applied part; see also applied part (camera head or videoscope) The video system center should be kept away from flammable gases.
oquipmonty	Analog HDTV signal output	The video system center should be kept away indim nammable gases. Ether RGB (1080/60): ITSC)/(1080/50): TRSC)/(1080/60): TRSC)/(1080/50): PAL) output can be selected.
Observation	Analog SDTV signal output	Enter has (rosovin in sc)/(rosovin): rAL) or there in the result is a sc)/(rosovin): rAL) or there in the rosovin in sc)/(rosovin): rAL) or there in the rosovin in sc)/(rosovin): rAL) or there is a science in the rosovin in sc)/(rosovin): rAL) or the rosovin i
	Digital signal output	Viso composite (eouroor, hrsb.//storioor, hrsb.//storior, hrsb.//storioor, hrsb.//storioor, hrsb.//storioor,
	White balance adjustment	nD-sol (SWIFE 252W), SD-SD (SWIFE 253W), DV (EEE 153W), and DV (WAAA, TOOD III 5AAA) Can be selected. White balance adjustment is joossible using the white balance button on the front panel.
	Standard color chart output	Winte balance adjustiment is possible using the winte balance bucknown on the non-panet. The "Color balance" of the "Software can be disolated.
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	Color tone adjustment	The following color tone adjustments are possible using the color-tone-level adjustment button and color-tone selector button on the keyboard: • 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.
	Contrast	<ul> <li>N (Normal): Normal image</li> <li>H (High): The dark areas are darker and the bright areas are brighter than in the normal image.</li> <li>L (Low): The dark areas are brighter and bright areas are darker than in the normal image.</li> </ul>
	Iris	The auto iris modes can be selected using the "iris mode" switch on the front panel. • Auto: The brightness is adjusted based on the brightest part of the central part and the average brightness of the periphery part. • Peak: The brightness is adjusted based on the brightest part of the endoscopic image. • Average: The brightness is adjusted based on the average brightness of the endoscopic image.
	Image enhancement setting	Fine patterns or edges in the endoscopic images can be enhanced electronically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected according to the user setup. • Structural enhancement: 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 4 levels (off, 1, 2, and 3) using the image enhancement mode button on the front panel.
	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 a "FREEZE" key on the endoscope or on the system keyboard.
	Switching the method of freezing the endoscopic image	Pre-freezing: The image with the least blur is selected and displayed from the images captured in the set time period before the freeze operation.
	Fog-free function	When a compatible endoscope is connected to the video system center, the fog-free function can be used.
	Endoscope's remote switches function	The functions of the remote switches on the endoscope can be set in the user settings.
	Reset to defaults	The following settings can be reset to their defaults using the reset button on the front panel: • Color tone • Inis mode • Image-enhancement mode • Color-enhancement mode • Optical-digital observation • Image size • Contrast • Freeze • Release index • Electronic zoom • Arrow pointer • Stopwatch • Characters on screen • PIP/POP
	Remote control	The following ancillary equipment can be controlled (specified models only): • Monitor • DVR • Video printer • Image filing system
Documentation	Patient data	The following data can be displayed on the monitor using the keyboard: • Patient ID • Patient name • Sex • Age • Date of birth • Date of recording (time, stopwatch) • Comments
	Displaying the record state	The recording state of the following ancillary equipment can be displayed on the monitor: • Portable memory and internal buffer • DVR • Video printer • Image filing system
	Displaying the image information	The following data can be displayed on the monitor: • Structure-enhancement level • Edge-enhancement level • Zoom ratio • Color mode • Focus
	Advance registration of patient data	Data for up to 50 patients can be registered, such as: • Patient ID • Patient name • Sex and age • Date of birth
Portable Memory	Media	MAJ-1925 (OLYMPUS)
	Recording format	TIFF: no compression • JPEG (1/5): approx. 1/5 compression • JPEG (1/10): approx. 1/10 compression
	Number of recorded images	TIFF: approx. 227 images • JPEG (1/5): approx. 1024 images • JPEG (1/10): approx. 2048 images
Memory Backup	User settings	Up to 20 user settings can be registered.
	Memorization of selected setting	The following settings are held in memory even after the video system center is turned off: • Color tone • Iris mode • Enhancement • Color-enhancement mode • Contrast • AGC • Color mode • White balance
	Lithium battery	Life: 5 years
	Element Sectory	

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