

EVIS X1 Video System Center

CV-1500

A Unified Platform with 5 LED Spectrum Technology



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By integrating the LED light source with the video processor, Olympus has developed a powerful system that is much more compact and lightweight than the predecessors*1.

Broad Compatibility

The CV-1500 can be connected to many different types of endoscopes, providing access to a wide variety of endoscopy-supporting functions.

Enhanced Observations

In addition to conventional white light and NBI (Narrow Band Imaging) and AFI (Auto Fluorescence Imaging) observation, the CV-1500 offers three other powerful enhanced observations to improve diagnostic and therapeutic capability:

- TXI (Texture & Color Enhancement Imaging) optimizes the structure, color tone and brightness of the mucosal surface.
- RDI (Red Dichromatic Imaging) improves visibility of deep blood vessels and bleeding points.
- BAI-MAC (Brightness Adjustment Imaging with MAintenance of Contrast) improves brightness in darker portions.

Intuitive, User-friendly Functions

With One-Touch Connector for quick, easy connection and no need for white balance adjustment*2, setup is simplified, with the aim of streamlining workflow and accelerating procedure time. Touch-sensitive panel facilitates intuitive operation, while convenient functions like Pre-freeze and MyCV mode ensure user-friendly working environment. Downtime is reduced thanks to the use of LED bulbs that last years without needing replacement.

*1 Combination of EVIS EXERA III/EVIS LUCERA ELITE series light source and processor *2 Olympus 1100/1200/1500 series endoscopes only

Specifications		
Power Supply	Rated voltage	100-240 V AC; Within $\pm 10\%$
	Frequency	50/60 Hz; within ± 3 Hz
	Rated input	600 VA
Size	Dimensions (W x H x D)	370 x 198 x 488 mm; 398 x 218 x 580 mm (maximum)
	Weight	19.4 kg
Classification (Medical Electrical Equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock of applied part	Depend on applied part. (The degree of protection against electric shock of this product is BF type if the mounting part to be connected to this product is BF type. However CF type is not subject to combination in this product.)
	Degree of protection against explosion	The video system center should be kept away from flammable gases.
	Analog signal output	VBS composite and Y/C; simultaneous outputs possible.
Observation	Digital signal output	12G-SDI (SMPTE ST 2082), 3G-SDI (SMPTE424M), HD-SDI (SMPTE292M), SD-SDI (SMPTE259M)
	User settings	The function settings for up to 20 users can be stored.
	Color tone adjustment	Adjust the color tone of each endoscopic image for White light observation mode, NBI observation mode, and RDI observation mode. • 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	• H (High) : Darkens the dark part and brightens the bright part. • L (Low) : Brightens the dark part and darkens the bright part.
	BAI-MAC	Brightness adjustment with maintenance of contrast
	Iris	The iris modes can be switched. • 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 settings	Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. • Enhancement type A : Emphasizes the pattern and contour of the endoscopic image. • Enhancement type B : Emphasizes the finer parts than structure emphasis type A.
	Switching the enhancement modes	The enhancement level can be selected from 3 levels (OFF, 1, 2, and 3)
	Image size selection	The size of the endoscopic image can be selected from 2 modes. (Except SDTV)
	Electric zoom	Switch between mode 1, mode 2, and mode 3.
	PIP/POP	Switch between PIP and POP.
	Aspect ratio	Switch between 16:9 and 4:3. (Except SDTV)
	Freeze	Freeze the endoscopic image.
	Pre-freeze	The image with the least blur is selected from the images captured in the set time period before freeze operation and displayed.
	Optical-digital observation	The optical-digital observation can be performed. The endoscope compatible with the optical-digital observation is required. • NBI observation : This observation mode uses the narrow band light. • RDI observation : This observation mode uses the red dichromatic lights. • AFI observation : This observation mode uses the blue light. • TXI observation : This observation mode enhances color, texture and brightness.
	Beginning and ending examination	Beginning and ending examination timing can be set interlock with the particular operation.
	Custom switch	Assign specific functions to the following buttons. • Remote switches (Up to 5) • Foot switches (Up to 2) • Keyboard custom key (Up to 4) • Touch panel custom button of basic functions screen (Up to 3) • Touch panel custom button of custom functions screen (Up to 10)
	MyCV mode	Switch setting values of multiple functions at once.
Documentation	Remote control	The following peripheral device can be controlled (specified models only). • Portable memory • Video recorder • Color video printer • Image filing system • Server
	Patient information	The following data can be displayed on the monitor. • Patient ID • Patient name • Gender • Age • Date of birth • Comment
	Displaying the record state	The recording state of the following peripheral device can be displayed on the monitor. • Portable memory : Remaining capacity • Video recorder : Number of shots / Recording status • Color video printer : Number of shots • Image filing system : Number of shots
	Displaying the image information	The following data can be displayed on the monitor. • Image enhancement • Electric zoom ratio • Color mode • Focus • Observation mode
	Advanced registration of patient information	Up to 50 patient information can be registered. • Patient ID • Patient name • Gender • Age • Date of birth
	Recording format	Standard image quality: TIFF; Low image quality: JPEG
Memory Backup	Memorization of user settings	The settings are held in memory even after the video system center is turned OFF.
	White balance	The white balance that is once set is held in memory (only when using the compatible endoscope).

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

