OLYMPUS®

Your Vision, Our Future

VIDEO SYSTEM CENTER

CV-170

Taking a new step with a combination of
HDTV and NBI in ENT

OLYMPUS®

Advancing the standard:
Office-based video endoscopy with HDTV images.

Portable memory
Portable memory (MAJ-1925) is compatible, which is the standard for data management. Simply connect and upload.

CV-170

RHINO-LARYNGO VIDEOSCOPE
ENF-VH/ENF-V3

*This trolley is not available in some areas.
*Image of the monitor is simulated.
 Please ask our salesperson for further details.

HDTV

High-resolution HDTV images deliver sharp and clear details, boosting observation capabilities when viewing mucosal structures and other vessel patterns. The system's improved imaging with minimal halation and image noise effectively supports diagnostics efficiently. This superior performance will expand the potential of endoscopy to a new level.

ENF-VH

NBI (Narrow Band Imaging)

NBI enhances the visibility of capillaries and other structures on the mucosal surface by using special illumination to contrast abnormal tissue against the surrounding healthy area optically. This advanced visualization technology potentially reduces unnecessary biopsies and improves examination quality. The combination of NBI and HDTV is now available to support optimal diagnosis and treatment.

White Light

NBI
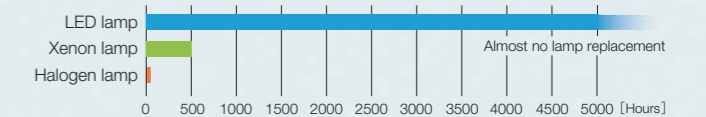
Compatible with existing scopes

Your current OLYMPUS scopes are compatible with the CV-170 by connecting the camera head. This economical benefit will result in cost savings and greater usability, with NBI.

Simple design with LED

The CV-170's all-in-one design condenses its performance into a compact and convenient office size. The newly adopted long-life LED lamp minimizes lamp replacement, and as a result, maintenance is much easier. It generates virtually no heat, assuring long hours of operation while reducing energy and noise.

Expected Lifetime

LED lamp	Almost no lamp replacement
Xenon lamp	
Halogen lamp	

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 [Hours]

*Comparison of white light mode.

Video System Center
OLYMPUS CV-170

Power Supply	Voltage	100-240 V AC: 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
Observation	Examination lamp	LED lamp
	Analog HDTV signal output	Either RGB (1080/60I: NTSC)/(1080/50I: PAL) or YPbPr (1080/60I: NTSC)/(1080/50I: PAL) output can be selected.
	Analog SDTV signal output	VBS composite (480/60I: NTSC)/(576/50I: PAL), Y/C (480/60I: NTSC)/(576/50I: PAL), and RGB (480/60I: NTSC)/(576/50I: 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.
	Color tone adjustment	The following color tone adjustments are possible. •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.
	Noise reduction	Noise is corrected by image processing.
	Iris	The auto iris modes can be selected using the "iris mode" switch on the front panel. •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 electrically 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.
	Freeze	An endoscopic image is frozen using an endoscope or the "FREEZE" key on the keyboard.
	NBI observation	This is one of optical-digital observations using the narrow band observation light.
	Remote control	The following ancillary equipment can be controlled (specified models only). •DVR •Video printer •Image filing system •Flushing pump •Endoscopic CO_2 regulation unit
Documentation	Patient data	The following data can be displayed in the endoscopic image screen. •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
	Advance registration of patient data	Up to 50 patient's data can be registered. •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 recording images	•TIFF: approx. 227 images •JPEG (1/5): approx. 1024 images •JPEG (1/10): approx. 2048 images

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.

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