

OLYMPUS[®]

Your Vision, Our Future

EVIS
LUCERA
SPECTRUM

EVIS LUCERA VIDEO SYSTEM CENTER
OLYMPUS CV-260

Leading-edge processor offering breathtaking HDTV image reproduction and special light observation capabilities



OLYMPUS CV-260



Superb HDTV images and advanced light observation capabilities including AFI make the CV-260 video processor today's leading choice for demanding endoscopic applications. Supported by sophisticated processing technology and an array of convenient features, this smart, compact unit helps ensure more precise and reliable endoscopic diagnosis and treatment.



Specifications

Observations	HDTV signal output	Either RGB or YPbPr output can be selected.
	Special light observation	AFI (Auto Fluorescence Imaging) and IRI (infrared imaging) are available.*
		* Available in combination with CLV-260. Dedicated scopes required for AFI and IRI.
	Adaptive IIR Color Enhancement	Enhances small differences in colors based on the IIR values in endoscopic images. Three color enhancement modes ([1], [2], [3]) can be selected using the COLOR enhancement switch on the front panel. User Preset allows the COLOR enhancement switch to control either structure enhancement or Adaptive IIR Color Enhancement.
	Rainbow Color Correction	Minimize the color deviation caused by the time lag between RGB signals and ensure a stable, flicker-free image.
	IIR Color Chart	IIR values of individual pixels in an endoscopic image can be calculated and displayed in simulated color. The average IIR value in an image can also be displayed.
	SDTV signal output	VBS composite (NTSC), Y/C and RGB; simultaneous outputs possible.
	White balance adjustment	Automatic White Balance is possible using the WHITE BAL switch on the front panel.
	Standard color chart output	A color bar chart or 50% white chart can be displayed by pressing the SHIFT+TITLE SCREEN keys on the keyboard.
	Color tone adjustment	The following color tone adjustments are possible using the color tone selector switch and color tone level adjustment switches on the front panel. • "R" adjustment: ±7 steps. • "B" adjustment: ±7 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 (1 to 3) using the CONTRAST key on the keyboard. Mode 4 can be selected by pressing the CTRL+CONTRAST keys on the keyboard. 1: Normal image. 2: The dark areas are brighter and bright areas are darker than in the normal image. 3: The dark areas are darker and the bright areas are brighter than in the normal image. 4: Exclusive mode for use when the image is processed.
	Iris mode selection	The iris modes can be selected using the IRIS switch on the front panel. Average: For use in normal observation. Peak: For use when observing by focusing on a small bright area. Automatic Iris: For use when observing by focusing on the image center.
	Structure enhancement setting	Fine patterns and edges in endoscopic images are enhanced electrically to increase image sharpness. Three enhancement modes ([1], [2], [3]) can be selected using the ENH. switch on the front panel. User Preset allows the ENH. switch to control either structure or edge enhancement.
	Edge enhancement setting	Edges in endoscopic images are enhanced electrically to increase image sharpness. Three enhancement modes ([1], [2], [3]) can be selected using the ENH. switch on the front panel. User Preset allows the ENH. switch to control either structure or edge enhancement.
	Electronic magnification	An endoscopic image can be magnified electronically in combination with H260, Q260, and Q240 series scopes. Three magnification modes [1][2][3] can be selected using ZOOM switch on the front panel.
	Image size selection	The size of endoscopic image can be changed using the IMAGE SIZE key on the keyboard.
	Reset to defaults	The following settings can be reset to their defaults using the RESET switch on the front panel. • Monitor output • Iris mode • Enhancement level • Color tone adjustment level • Display mode • Contrast mode • Scope switch settings • Endoscopic image size
	Freeze	An endoscopic image is frozen using a scope switch or the FREEZE key on the keyboard.
	Pre-Freeze	When the FREEZE key on the keyboard is pressed to freeze the endoscopic image, this function makes it possible to select the image with least color position deviations from the images before the FREEZE key is pressed.
Documentation	Remote control	The following ancillary equipment can be controlled from the front panel, keyboard or endoscope's remote switches. (Specified models only) • Video monitor • Videotape recorder • Video printer
	Patient data	The following data and status can be displayed on the monitor screen using the keyboard. 1. Patient ID No. 2. Patient name 3. Sex & age 4. Date of birth 5. Date of recording (time, stopwatch) 6. Image frame No. 7. Videotape recorder mode 8. Display image setting 9. Physician name 10. Comments
	Advance registration of patient data	The following data of up to 40 patients can be entered prior to surgery using the keyboard. 1. Patient ID No. 2. Patient name 3. Sex & age 4. Date of birth 5. Physician
	Scope ID function	The following scope related data stored in the memory chip of the scope can be recalled and displayed on the screen. Scope Model, Serial No., Comments, Service Contract, Warranty Date, Owner, Customer ID No.
Image recording and playback	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.
	Setting memory	The following settings are held in memory even after the video system center is turned off. • Color tone • Enhancement • White balance • Iris mode • Adaptive IIR color enhancement • Structure enhancement • Electronic magnification
Classification as medical electrical equipment	Type of protection against electric shock	Class I
	Degree of protection against electric shock	Type BF applied part. Where no classification mark appears, the device is a Type BF applied part.
	Degree of protection against explosion	The video system center should be kept away from flammable gases.
Power supply	Voltage (Voltage fluctuation)	100~120V, 220~240V AC (Within ±10%)
	Frequency (Frequency fluctuation)	50/60 Hz (Within ±1%)
	Input current	1.5 A (100~120V), 0.6A(220~240V)
	Fuse rating	5 A, 250 V
Size	Dimensions	382 (W) x 78 (H) x 504 (D) mm (maximum)
	Weight	9.4kg

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



OLYMPUS MEDICAL SYSTEMS CORP.
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-0914, Japan
OLYMPUS MEDICAL SYSTEMS EUROPA GMBH
Postfach 10 49 08, 20034 Hamburg / Wendenstrasse 14-18, 20097 Hamburg, Germany
OLYMPUS AMERICA INC.
3500 Corporate Parkway PO Box 610, Center Valley, PA 18034-0610, U.S.A.
OLYMPUS LATIN AMERICA, INC.
6100 Blue Lagoon Drive, Suite 390 Miami, Florida 33126-2087, U.S.A.
KEYMED LTD.
Keymed House, Stock Road, Southend-on-Sea, Essex SS2 5QH, England

OLYMPUS SINGAPORE PTE LTD.
491B River Valley Road #12-01/04, Valley Point Office Tower, Singapore 248373
OLYMPUS HONG KONG AND CHINA LIMITED
Room 1520-1527, Ocean Centre, 5 Canton Road, Tsimshatsui, Kowloon, Hong Kong
OLYMPUS (BEIJING) SALES & SERVICE CO., LTD.
Room 1202, NCI Tower, A12 Jianguomenwai Avenue Chaoyang District Beijing, 100022, China
OLYMPUS MOSCOW LIMITED LIABILITY COMPANY
117071, Moscow, Malaya Kaluzhskaya 19, bld. 1, fl. 2, Russia
OLYMPUS AUSTRALIA PTY LTD
31 Gilby Road, Mount Waverley, VIC., 3149, Australia

www.olympus.com

Printed in Japan F1188SB-0806

OLYMPUS[®]

Your Vision, Our Future

EVIS
LUCERA
SPECTRUM

EVIS LUCERA XENON LIGHT SOURCE
OLYMPUS CLV-260

Advanced light source designed for HDTV-compatible scopes provides both standard white-light illumination for normal observation and special illumination for



OLYMPUS CLV-260



Especially designed to optimize the performance of HDTV-compatible EVIS LUCERA scopes, the CLV-260 light source is equipped with sophisticated filter systems that allow you to take advantage of both

Fluorescence Imaging observation. Despite its slim profile, this compact light source offers plenty of illumination power with a high-power 300-watt xenon lamp. Rear panel air vents are provided to direct exhaust heat away from patients.

Specifications

Special light observation	AFI and IRI are possible*. * Possible in combination with CV-260	Dedicated scopes required for AFI and IRI.
Automatic brightness control	Automatic brightness control method	Servo-diagram method
Automatic exposure	Automatic exposure	17 steps
Air feeding	Pump	Diaphragm type pump
	Pressure switching	4-level available (off, low, mid, high)
Water feeding	Method	Air pressurization or detachable water container
Indicators on front panel	Emergency lamp	It reports absence of emergency lamp, disconnection and use of emergency lamp.
	Filter	It identifies a special-purpose filter setting.
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 on 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 by using special-purpose filter
	Emergency lamp	Halogen lamp (within mirror) 12 V 35 W
	Average emergency lamp life	Approximately 500 hours
Classification (Electro-medical equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock	TYPE BF applied part. NOTE: The applied part as classification types are not marked the TYPE BF applied part.
	Degree of protection against explosion	Use prohibited in flammable environment.
Power supply	Voltage	100~120V, 220~240V AC
	Voltage fluctuation	Within $\pm 10\%$
	Frequency	50/60 Hz
	Frequency fluctuation	Within ± 1 Hz
	Input current	5A(100~120V), 3A(220~240V)
	Fuse rating	8 A, 250 V
	Fuse size	ϕ 5 mm x 20 mm
Size	Dimensions	381 (W) x 162 (H) x 536 (D) mm (maximum)
	Weight	16 kg

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

OLYMPUS

OLYMPUS MEDICAL SYSTEMS CORP.
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-0814, Japan
OLYMPUS MEDICAL SYSTEMS EUROPA GMBH
Postfach 10 49 08, 20034 Hamburg / Wendenstrasse 14-16, 20097 Hamburg, Germany
OLYMPUS AMERICA INC.
3500 Corporate Parkway PG Box 610, Center Valley, PA 18034-0610, U.S.A.
OLYMPUS LATIN AMERICA, INC.
6100 Blue Lagoon Drive, Suite 390 Miami, Florida 33126-2087, U.S.A.
KEYMED LTD.
Keymed House, Stock Road, Southend-on-Sea, Essex SS2 5QH, England

OLYMPUS SINGAPORE PTE LTD.
491B River Valley Road #12-01/04 Valley Point Office Tower Singapore 248373
OLYMPUS HONG KONG AND CHINA LIMITED
Room 1520-1527, Ocean Centre, 5 Canton Road, Tsimshatsui, Kowloon, Hong Kong
OLYMPUS (BEIJING) SALES & SERVICE CO., LTD.
Room 1202, NCI Tower, A12 Jiaquomenwai Avenue Chaoyang District Beijing, 100022, China
OLYMPUS MOSCOW LIMITED LIABILITY COMPANY
117071, Moscow, Malaya Kaluzhskaya 19, bld. 1, fl.2, Russia
OLYMPUS AUSTRALIA PTY LTD
31 Gilly Road, Mount Waverley, VIC., 3149, Australia

www.olympus.com

Printed in Japan F1189SB-0806

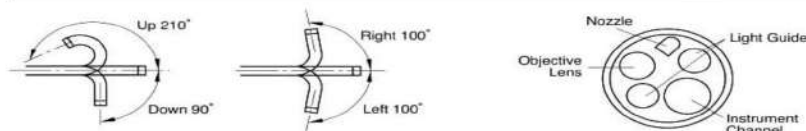
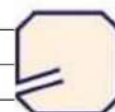
GASTROINTESTINAL VIDEOSCOPE OLUMPUS GIF TYPE XQ 240

Main Features

- Clear, sharp, high-quality images in a large-size display that clearly shows subtle textures and fine capillaries inside the upper gastrointestinal tract.
- Exclusive new image enhancement function: Narrow Band Imaging, which is designed to help emphasize fine capillary patterns.
- Slim 9.2 mm to 9.8 mm diameter distal end and insertion tube for excellent insertion capacity.
- Wide 140° field of view enables accurate observation of a wide area.
- A 2.8 mm diameter instrument channel enables the use of a wide range of endo therapy accessories.
- 4-way angulation (210° up, 90° down and 100° right / left) permits complete and comprehensive examination of the upper digestive tract.
- Easy to access buttons and user programmable switches improve operability.
- Fully compatible with the CV- 140/145/150/160/260
- Scope ID function stores individual scope information in the built-in memory chip and displays it on the monitor, facilitating endoscopy suite management.

Specifications

Optical System	Field of view	140°
	Direction of view	0° Forward viewing
	Depth of field	3 to 100 mm
Distal End	Outer diameter	9.8 mm
Insertion Tube	Outer diameter	9.5 mm
Bending Section	Angulation range	Up 210°, Down 90°, Right 100°, Left 100°
Working Length		1030 mm
Total Length		1350 mm
Instrument Channel	Inner diameter	2.8 mm
	Minimum visible distance	3 mm from distal end
	Endo-Therapy accessory entrance/exit position in field of view	



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

OLYMPUS®

Your Vision, Our Future

www.olympus.com

OLYMPUS MEDICAL SYSTEMS CORP.

Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-0914, Japan

OLYMPUS MEDICAL SYSTEMS EUROPA GMBH

Postfach 10 49 08, 20034 Hamburg/Wendenstrasse 14-18, 20097 Hamburg, Germany

OLYMPUS America, INC.

3500 Corporate Parkway PO Box 610, Center Valley, PA 18034-0610, U.S.A.

OLYMPUS Latin America, INC.

6100 Blue Lagoon Drive, Suite 390 Miami, Florida 33126-2087, U.S.A.

KEYMED LTD.

Keymed House, Stock Road, Southend-on-Sea, England

OLYMPUS SINGAPORE PVT LTD.

4198 Revie Valley Road #12-01/04, Valey Point Office Tower, Singapore 248373

OLYMPUS HONG KONG AND CHINA LIMITED

Room 1520-1527, Ocean Centre, 5 Canton Road, Tsimshatsui, Kowloon, Hong Kong

OLYMPUS (BEIJING) SALES & SERVICE CO., LTD.

Room. 1202, NCI Tower, A12 Jianguomenwai Avenue Chaoyang District Beijing, 100022, China

OLYMPUS MOSCOW LIMITED LIABILITY COMPANY

117071, Moscow, Malaya Kaluzhskaya 19, bld. 1, FL, Russia

OLYMPUS AUSTRALIA PTY LTD

31 Gilby Road, Mount Waverley, VIC., 3149, Australia

Printed in Japan F1185B-0806

OLYMPUS®

Your Vision, Our Future

COLONOVideoscope

CF-Q240L/I

Practical Colonoscope Equipped with Generous 3.7 mm Diameter Channel and
Measuring 12.8 mm Across at Both the Distal End and Insertion Tube



OLYMPUS CF TYPE Q240L/I

Main Features

- The CCD produces high-quality images providing the outstanding clarity and sharpness needed for accurate depiction of pit patterns and other subtle mucosal and capillary structures within the colon.
- Four-way angulation (180° up/down and 160° right/left) for comprehensive examination of the colon.
- The grip has been ergonomically designed to enhance the scope maneuverability while easy-to-access hand controls and user-programmable switches improve operability.

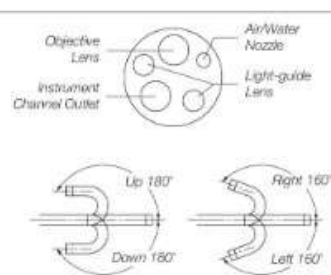


- A large 3.7 mm diameter instrument channel ensures strong suction capability and accommodates a wide range of endotherapy accessories.
- The distal end and insertion tube measure 12.8 mm in diameter.



Specifications

Optical System	Field of view	140°
	Direction of view	Forward viewing
	Depth of field	3 ~ 100 mm
Distal End	Outer diameter	12.8 mm
Insertion Tube	Outer diameter	12.8 mm
Bending Section	Angulation range	Up 180°, Down 180°, Right 160°, Left 160°
Working Length		L:1680 mm, I:1330 mm
Total Length		L:2000 mm, I:1650 mm
Instrument Channel	Inner diameter	3.7 mm
	Minimum visible distance	5 mm from distal end
	Endotherapy accessory entrance/exit position in field of view	



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