

# OLYMPUS®

Olympus is about life. About photographic innovations that capture precious moments of life. About advanced medical technology that saves lives. About information- and industry-related products that make possible a better living. About adding to the richness and quality of life for everyone. Olympus. Quality products with a **FOCUS ON LIFE**



**NEW**

## EVIS UNIVERSAL LIGHT SOURCE OLYMPUS CLV-U40





**VISIONARY IMAGING**

## *The CLV-U40 light source...A new vision of endoscopic excellence*

You have always relied on us for the finest endoscopic equipment available...now OLYMPUS brings you the most advanced endoscopic equipment to date: the EVIS 140 series. Our newest addition to the OLYMPUS family of products combines an unsurpassed standard of optics with easier reprocessing for optimum performance and safety you can depend on. Today and tomorrow, OLYMPUS brings you **VISIONARY IMAGING**.

### **Complete compatibility with all scopes**

The CLV-U40 is a universal light source for use with all OLYMPUS endoscopes. By actuating the Mode Selector, the light source can be set for any scope—from the EVIS 100, 130, 140, and 200 Series videoscopes to the OES fiberscopes and all rigid endoscopes.

### **300W Xenon Light Source**

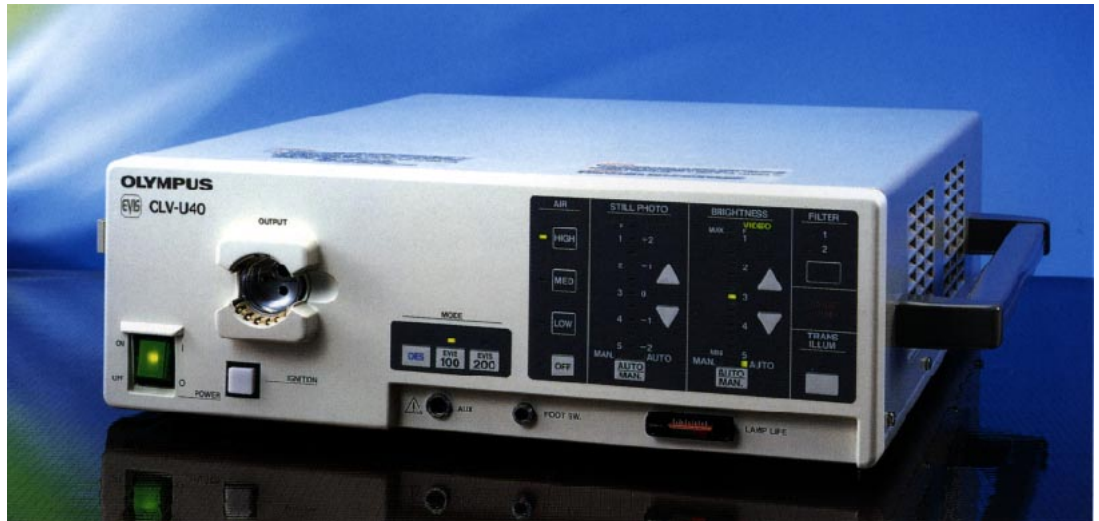
Provides approximately 1.5x greater light intensity for clearer, more vivid images to enhance detailed observation.  
(Only in combination with 200 series scopes.)

### **Optimum Light Density Adjustment for Video Taping**

Automatically selects the ideal sensitivity required. Manual override offers variable adjustment by the endoscopist.

### **Automatic Exposure Control for Still Photography**

Automatically sets light source at the optimum exposure for still or Polaroid photography. Manual override gives the endoscopist complete control of this function.



### **Built-In Emergency Lamp**

The CLV-U40 system includes a built-in 150W Halogen emergency lamp which is automatically actuated in the event of Xenon lamp failure.

### **Malfunction Indicator**

Any malfunction in the emergency system triggers the panel light malfunction indicator.

### **Transillumination Feature**

Increases illumination to allow confirmation of target area from outside the body. Automatically returns to original setting after approximately 7 seconds.

# Innovative Features are Standard for Exceptional Performance



FEATURES	BENEFITS
<b>Remote, Foot Operated Control</b>	Provides "Hands-Free" operation of ancillary equipment
<b>Variable Air Control</b>	Regulates air pressure and water feed pressure to one of four settings: High, Medium, Low, or Off
<b>Control Panel</b>	Permits ease of use and maintenance. Flat membrane switches are easy to actuate and wipe clean
<b>Set Point Memory</b>	Maintains established settings even when power is switched off
<b>AUTO/MANUAL Exposure Selection</b>	Select appropriate manual exposure for still photographs, or place in automatic mode to autoregulate as required. Sensitivity selector manually adjusts to desired exposure level
<b>AUTO/MANUAL Brightness Selection</b>	Manually select desired level of illumination, or place in automatic mode to auto-regulate as required. Sensitivity selector manually adjusts to desired intensity level
<b>Transillumination</b>	Press to elevate illumination in order to highlight target area external of the torso. Automatically returns to normal setting in approximately 7 seconds
<b>Emergency Lamp</b>	150W Halogen lamp actuates automatically in the event of Xenon lamp failure
<b>Filter selection</b>	Manually select filter 1, 2, or none
<b>Exposure Compensation</b>	Allows +2 to -2 EV (exposure value) adjustment at 1/2 EV increments to regulate exposure as required
<b>Automatic Light Reduction</b>	Automatically dims light intensity when scope is removed from CLV-U40 to protect patient and operator
<b>Lamp Life Meter</b>	Indicate approximate cumulative working hours of Xenon lamp
<b>Full Compatibility</b>	CLV-U40 is compatible with all the range of endoscopes from OES fiberscopes to EVIS 100, 130, 140 and 200 series videoscopes
<b>Independent Safety Requirement</b>	Meets IEC601-1 International Standard for Medical Equipment, Part 1: General Requirement for Safety. UL544 Standard for Safety: Medical and Dental Equipment

ITEM	Specifications	
<b>Still Photography</b>	Exposure control	Auto/Manual: time control by LIGHT SOURCE shutter
	Shutter speed	1/4 to 1/50 sec.
	Shortest recycle time	1 sec.
	Exposure light amount	Flash output (approx. 1.5 times visual light output)
	Automatic exposure sensitivity setting	9 steps: 1 step 1/2 EV. Exposure decreases from INDEX "1" to "5" (or from "+2" to "-2")
	Manual exposure sensitivity setting	10 steps: 1 step 1/2 EV, except for 1 EV between "F" and "1".
<b>Air Feeding</b>	Pump	Linear type pump
	Pressure Switching	1-level switching ("OFF", "LOW", "MED", "HIGH")
	Performance	At OUTPUT socket <ul style="list-style-type: none"> <li>• High: less than 0.05MP (at flow rate 0)</li> <li>• Medium: more than 1.6l/min. (at 0.09MPa)</li> <li>• Low: 0.0075~0.015MPa (at flow rate 0)</li> </ul>
<b>Water Feeding</b>	Method	Air pressurization of WATER CONTAINER (detachable)
<b>Indication on the Front Panel</b>	Emergency lamp	Indication of Absent lamp, Burn-out or in operation
	Filters	Setting of filter: 1, 2 or None
<b>Memorization of selected setting</b>	Selected setting are retained even when the LIGHT SOURCE is switched off, by internal battery	
<b>Illumination</b>	Lamp	Xenon short-arc lamp (ozone-free) 300W
	Lamp life	Approx. 300 hours on continuous use, (over 20000 flashes) <ul style="list-style-type: none"> <li>• On intermittent use the lamp life may differ slightly.</li> </ul>
	Ignition	Switching regulator
	Light output adjustment	Light-path diaphragm control
	Cooling	Forced-air cooling
	Color conversion	Possible by using exchangeable filter (filter "2")
	Emergency lamp	Halogen lamp (without mirror) 24V 150W
<b>Visual Observation</b> <ul style="list-style-type: none"> <li>• Videoscope</li> <li>• Video</li> </ul>	Emergency lamp life	Approx. 500 hours.
	Automatic brightness Adjustment	Servodiaphragm method
	Automatic exposure setting	17 steps: 1 step 1/4 EV (F; full admission) Exposure decreases from INDEX NUMBER "F" to "5".
<b>Classification (Electro-medical equipment)</b>	Type of protection against electric shock	Class 1
	Degree of protection against electric shock	Type BF (Body Floating).
	Degree of protection against explosion	The LIGHT SOURCE should be kept away from the zone of risk of flammable gases.
<b>Power Requirements</b>	Voltage	120V
	Voltage fluctuation	Within $\pm 10\%$
	Frequency	50/60Hz
	Frequency fluctuation	Within $\pm 1\text{Hz}$
	Input current	3A (at observation)4A (at flash)
<b>Operating Environment</b>	Ambient temperature	10–40°(50°F–104°F)
	Relative humidity	30–85%
	Atmospheric pressure	700–1060 hPa
<b>Size</b>	Dimensions	587(W)x165(H)x537(D)mm(Max.)
	Weight	22kg

## Meeting your need for Visionary Imaging

It takes a tremendous amount of skill to build a reputation as an innovator among industries as diverse as communications, medicine, information and science. Yet that's exactly what OLYMPUS has done since its inception in 1919.

Our range of products encompasses a broad spectrum of technological introductions and achievements. Not only in cameras, but also in our wide range of Endoscopes... Microscopes... Fiberscopes... Microcassette Recorders... Clinical Analysis Equipment... and Video Equipment.

And more breakthroughs are just around the corner, particularly in the exciting new field of optoelectronics, which combines cutting edge optical technology, electronics and precision engineering.

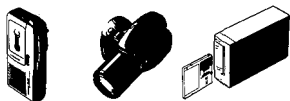
At OLYMPUS, we've earned our reputation for an unfailing commitment to ground-breaking research and development, an uncompromising dedication to quality, precision and accuracy... and a commitment to remain the leading provider of optical instrumentation.

That's why we'll continue to lead the way with the highest quality precision products that will meet your professional needs. Today and tomorrow. Look to OLYMPUS for *Visionary Imaging*.

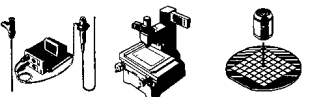
### Olympus business areas



Medical and health-care area



Imaging and information area



Industrial applications area

# OLYMPUS®

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