



**Advanced Test Equipment Rentals**  
**www.atecorp.com 800-404-ATEC (2832)**

# **OLYMPUS IW-2**

---

## **INDUSTRIAL VIDEO ANALYZER**

---

**[INTRODUCTION]**

**⚠ WARNING**

*The user of this instrument should be thoroughly trained in the applicable procedure. It is essential to follow the instructions contained in this and other instruction manuals which pertain to any equipment and accessories used during the inspection procedure in conjunction with this instrument.*

*Failure to follow these instructions may result in damage to and/or malfunction of the instrument.*

**OLYMPUS**  
**INDUSTRIAL**

# 2 FEATURES AND MAIN SPECIFICATIONS

## 2-1 Features


1. Two types are available; IW-2 with Built-in IV-5A and IW-2 with Built-in CAMERA/STORAGE COMPARTMENT.
2. The IW-2 allows monitoring of either Olympus Industrial Videomicroscope or a video camera on a separately sold monitor.
3. Built-in high-intensity halogen light source.
4. Optional LCD module (MH-902/903) compatible with the IW-2.
5. Freeze frame (still image) function.
6. Image storage.
7. Image retrieval.
8. Defect measurement.
9. Transmission of image data via a telephone line using an optional modem.
10. IBM PC compatible.
11. S-video input and output terminals.
12. The IW-2 with Built-in IV-5A allows direct connection of all types of Olympus industrial videomicroscopes (IV6C5, IV8D5, and IV8S5 series).
13. The IW-2 with Built-in IV-5A allows automatic brightness adjustment with the IV6C5, IV8D5, and IV8S5 series videomicroscopes.

## 2-2 Main Specifications

Item		Specifications
Video Input	IV6C5, IV8D5/IV8S5 series scope	Compatible scopes for the IW-2 with Built-in IV-5A: Models: IV6C5-20, IV6C5-35, IV6C5-75, IV6C5-110, IV6C5-160, IV6C5X1-75, IV6C5X1-110 IV8D5-20, IV8S5-20, IV8D5-35, IV8S5-35, IV8D5-75
		The IW-2 with Built-in CAMERA/STORAGE COMPARTMENT can be connected to the IV-5A via the video input terminal or the S-video input terminal. The scope is then connected to the IV-5A.
	Fiberscope, rigid scope	Commercial video camera may be connected via the video input terminal or the S-video input terminal.
	Selection of video inputs	Video inputs selectable by keyboard operation. The selection is retained in memory even when the power is turned OFF
	LCD module	Sold optional. May be installed in the IW-2 main unit. It may also be placed and used away from the IW-2 via an umbilical cable. The orientation of the LCD screen is adjustable from 0 degrees to approximately 90 degrees in upward direction. The umbilical cable is 2 meters long. Hook and 1/4 inch female screw provided.
	Light source	Integral 150W halogen lamp light source and spare lamp storage space. Lamp life is approximately 50 hours. The IW-2 may be used as an ancillary product
	Video output	One NTSC or PAL Video output • Output impedance 75 Ω
		Two NTSC or PAL S-video outputs • Output impedance 75 Ω
		One VGA output

Item		Specifications
Keyboard		Open/close system membrane keyboard is located on the inner side of the front cover. The keyboard contains alphanumeric keys and symbols.
Freeze frame		Frame still image and field still image possible
		Memory size: 640H X 480V pixels
Image storage/retrieval		Digital image storage on built-in 540 M.B hard disk drive and built-in 3.5" (2HD/2DD) floppy disk drive. Recommended optional MO disk device may also be connected. (See Note)
Date/Time display		With battery backup. Functions even when the power is turned OFF.
Image transmission		Exchange of still images between two IW-2 units utilizing a telephone line provided both are equipped with recommended modem.
IW-2 with CAMERA/STORAGE COMPARTMENT		The CCU of a commercially available video camera may be operated by and stored in the IW-2.
Features valid when the IW-2 is equipped with built-in IV-5A	Automatic brightness adjustment	Possible when using IV6C5, IV8D5/IV8S5 series videoimagescope.
		Possible when using IV6C5, IV8D5/IV8S5 series videoimagescope with Xenon light source ILV-2.
	Color adjustment	One-touch automatic white balance
		The white balance setting is retained even when the power is turned OFF (retained for approximately 1 week provided that the IW-2 has been in continuous operation for more than 5 minutes)
	Remote control	Press the Freeze switch on the control section of the videoimagescope for remote control freezing the image.
		Press the Store switch on the control section of the videoimagescope for remote control of the image store function.
	AGC	Automatic gain control over a range of 18 dB (approximately) for optimum monitor screen brightness
	Exposure time setting function	CCD exposure time can be set in 3 steps. Sensitivity can be increased around 4 times maximum
Side view image correction	When the IV6C5 series and IV8S5 series scopes are used, side view image correction is possible during side-viewing observation. (Live image)	
Power Supply	Voltage	100-120 V AC 220-240 V AC switchable
	Frequency	50/60 Hz
	Power consumption	LAMP ON: Max. 730 VA LAMP OFF: Max. 420 VA
	Allowable voltage fluctuation	Within $\pm 10\%$
Power cord		AC, 3-pin, 3 meter cord
Outer dimensions		Max. 468 mm (W) x 189 mm (H) x 500 mm (L)
Handle		Folding type
Weight		19 kg (with built-in IV-5A and LCD module installed) 16 kg (with built-in CAMERA/STORAGE COMPARTMENT)

Note: For information on how to connect MO disk device, please contact your dealer or Olympus representative.

Item	Specifications
Operating environment	Operating temperature: 5°C–40°C (41°F–104°F)
	Relative humidity: 15–90% (under the condition that there is no condensation)
	Pressure: 1013 hPa (1 atmosphere) (normal pressure) in air
	Keep away from water.
	Keep away from direct sunlight.
	Do not use in flammable atmosphere.
	The unit must be grounded.
	Do not move the unit while in operation.
Electromagnetic Compatibility	<div style="display: flex; align-items: center;">  <div> <p>This device complies with the requirements of Directive 89/336/EEC concerning electromagnetic compatibility when used in combination with devices bearing CE marking either on the product or in its instructions for use.</p> <p>This device meets EN 50081-2 and EN 50082-2.</p> </div> </div> <div style="text-align: right; margin-top: 10px;">(Note)</div>

Note: This device complies with the above Directive only in the case of 220-240 volts.