

OLYMPUS[®]

Your Vision, Our Future

Industrial Videoscope

iPLEX MX II

NEW



Proven IPLEX quality and reliability in a true entry-level model

Olympus, a world leader in advanced videoscopes, introduces the IPLEX MX II videoscope system. The IPLEX MX II delivers the same quality and reliability as our other IPLEX models, letting users of every skill level carry out inspections simply, conveniently, and accurately.



Reliability

Tough environments? The IPLEX MX II is built to deliver every time

Decades of experience plus quality control

At the core of the IPLEX MX II are decades of Olympus endoscope experience and strict quality control. The IPLEX MX II shrugs off tough environmental conditions, letting you inspect with confidence in tight areas where bumps can occur.

Tough insertion tube ... easy scope insertability

The improved insertion tube of the IPLEX MX II has four layers, combining rugged durability and unsurpassed scope insertability. The tube is both exceptionally abrasion resistant 2X higher than the previous MX generation and highly crush resistant. The unique IPLEX Tapered Flex™ feature provides graduated flexibility for easy scope insertability.

A crush resistant steel coil layer makes the insertion tube more durable.

Tapered Flex™ tube features graduated flexibility for easy scope maneuverability and navigation.

High density outer braid for maximum wear resistance and durability.

Only contains articulation wires and electronics. With LED illumination at the scope tip, fiber optic bundles are not necessary.

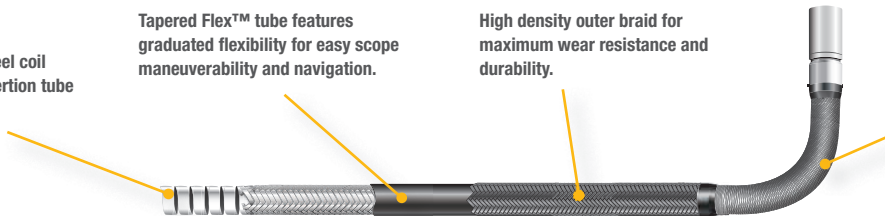


Image Quality

Even the smallest defects can be seen with superb image quality

Large monitor for detecting small defects

The IPLEX MX II is equipped with a large 6.5 in. monitor that reveals small defects clearly and accurately. The monitor features a low-reflection display and produces vivid images both indoors and outdoors.

Exceptionally bright LED illumination

The LED illumination system of the IPLEX MX II is 4X brighter than the conventional model delivering brilliant illumination to deep and dark areas that require inspection. The scope tip's LED array ensures that objects are evenly illuminated.





Ease of Use

The IPLEX MX II provides simple yet accurate operation for every user level

TrueFeel™ controller for precise articulation and quick menu access

You can intuitively manipulate the IPLEX MX II with menu buttons efficiently organised on the handheld controller. TrueFeel scope tip articulation enables power-assisted articulation and precise control. Just a light touch of the joystick moves the scope tip in any direction.



Versatile system design offers choice of operation

The compact IPLEX MX II weighs just 2.5 kg and is more than 30% smaller than a conventional model. It's easy to transport and easy to operate. Just turn it on and you're ready to go!

This versatile design offers a choice of operation. You can operate the IPLEX MX II either mounted on your body or placed wherever else it is convenient, and the handheld controller can be manipulated either independently or attached to the main unit.



Easy access to multiple object types

The IPLEX MX II provides insertion tubes in 4.4 mm and 6.0 mm diameters to cover various kinds of inspections. Both tubes have a short distal end and small bending radius for effortless insertion and convenient access to confined spaces.



Efficient recording and post-inspection work

The IPLEX MX II records high-quality JPEG still images to a USB flash device with a single click. You can make reports by connecting the PC-friendly recording medium to your computer. Title can be easily saved on an image in order to assure the streamlined post-inspection work.



IPLEX MX II Features and Specifications

SCOPE VARIATION				
Model No.	IV8415M	IV8430M	IV8630M	
Insertion Tube	Scope Diameter* ¹	ø4.4 mm (0.173 in.)		ø6.0 mm (0.236 in.)
	Scope Length	1.5 m (4.9 ft)	3.0 m (9.8 ft)	3.0 m (9.8 ft)
	Distal end* ²	14.85 mm (0.585 in.)		
	Exterior	High durability tungsten braid		
Tube Flexibility	TTF tube with flexibility gradually increasing toward the distal end.			
Optics	Direction of view	Forward		Forward. Can be changed to side view by using the side view mirror adaptor.
	Field of view	100°		120°
	Depth of field* ³	12 to 50 mm		18 to 1,000 mm
	Illumination method	LED		
Articulation Section	Articulation angle	UP/DOWN/RIGHT/LEFT 120°		
	Articulation mechanics	TrueFeel™ scope tip articulation with electronic power-assisted, manual articulation.		
System Weight (with battery)		2.5 kg (5.5 lb)		2.6 kg (5.7 lb)

*1. The insertion tube can be inserted into a ø4.4 mm or ø6.0 mm hole. *2. Indicates the length of the rigid portion at the scope's distal end.

*3. Indicates the optimal focal distance.

HANDHELD CONTROLLER	
Quick Access Buttons	The following features have dedicated quick access buttons, levers or joysticks on the hand control unit: Brightness, Zoom, Freeze Image, Record Still, Articulation Control, Articulation Lock, Menu Access, Quick Last Image Recall.
Dimensions	230 mm (W) x 100 mm (D) x 200 mm (H) (9.1 in. x 3.9 in. x 7.9 in.)
Weight	Approx. 500 g (1.1 lb)

MAIN UNIT	
Dimensions	227 mm (W) x 189 mm (D) x 64 mm (H) (8.9 in. x 7.4 in. x 2.5 in.)
Maximum Dimensions	239 mm (W) x 215 mm (D) x 99 mm (H) (9.4 in. x 8.5 in. x 3.9 in.)
LCD Monitor	6.5-inch anti-reflective LCD
Power Supply	Battery: 10.8 V nominal AC power: 100 V to 240 V, 50/60 Hz (with supplied AC adaptor)
Output Connector	RCA composite video output
USB Connector	A connector, Ver. 2.0 standards

SOFTWARE CONTROLS	
Image Controls	3 step digital zoom, 8 step digital brightness control
Display Text Options	30-character title display

RECORDING MANAGEMENT FUNCTIONS	
Recording Media	USB flash drive (1 GB standard, compatible with recommended USB flash device)
Overlay	30-character with date and time
Still Image Recording	Resolution — NTSC: H640 x V480 (Pixel), PAL: H768 x V576 (Pixel)
	Recording Format: Compressed JPEG format (Exif 2 compliant)
	Size of a Single Image: Approx. 300 KB

OPERATING ENVIRONMENT		
Operating Temperature	Insertion Tube	In air: -25 °C to 80 °C (-13 °F to 176 °F); In water: 10 °C to 30 °C (50 °F to 86 °F)
	Other parts than above	In air: -10 °C to 40 °C (14 °F to 104 °F)
Operating Atmospheric Pressure	Insertion Tube	In air: 1013 hPa; In water: 1013 to 1317 hPa
	Other parts than above	In air: 1013 hPa
Relative Humidity	All parts	15% to 90%
Liquid Resistance	All parts	Operable when exposed to machine oil, light oil or 5% saline solution.
Waterproofing	Insertion Tube	Operable under water
	Other parts than above	Neither waterproof nor drip-proof

SIDE VIEW MIRROR ADAPTOR* ¹ SPECIFICATIONS*				
Model No.	Outer diameter* ²	Direction of view	Field of view	Depth of field* ³
AT50S-IV76X2	ø7.4 mm (0.291 in)	Side	50°	5 to 1,000 mm

*1. Available on IV8630M only. Images other than the mirror image are visible when the adaptor is mounted on the scope. Usable under water, but remove the adaptor immediately to clean and dry it. Otherwise, corrosion and expansion may make it impossible to remove or mount the adaptor.

*2. The adaptor can be inserted into a ø7.4 mm hole when it is mounted on the scope.

*3. Indicates the optimal focal distance.

Accessories

Lithium-ion Battery
NC2040L24

Battery charger
CH5000C (USA type)/
CH5000X (European type).
The battery provides two hours of operating time.



Side View Mirror Adaptor
AT50S-IV76X2

You can change the direction of view by mounting the side viewing tip adaptor.



High Magnification Adaptor
MAJ-1566

Provides approx. 20X higher magnification on the IPLEX MX II monitor by being locked onto the IPLEX MX II.
Note: Exclusively for use on IV8630M.



Side View Rigid Sleeve

MAJ-1730 (for 4.4 mm)
MAJ-1731 (for 6.0 mm)
Side view rigid sleeve with prism-style LED illumination enables effective inspection of small gas turbine engines.



Rigid Sleeve Sets

MAJ-1253
(for 6.0 mm insertion tube)
MAJ-1281
(for 4.4 mm insertion tube)
Each set consists of three rigid sleeves of 250 mm, 340 mm and 450 mm lengths.



OLYMPUS NDT INC. is ISO 9001 certified.

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Mixed Sources
Product group from well-managed forests, controlled sources and recycled wood or fiber

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