



Scope Variation

- Outer diameter:
 • ø4.4mm with insertion tube length of 1.5m: IV7415X2
 • ø4.4mm with insertion tube length of 3.0m: IV7430X2
 • ø6.0mm with insertion tube length of 2.0m: IV7620X2
 • ø6.0mm with insertion tube length of 3.0m: IV7630X2
 • ø6.0mm with insertion tube length of 5.0m: IV7650X2
 • ø6.0mm with insertion tube length of 8.0m: IV7680X2

Insertion tube/Control unit

- **Insertion tube**
 Tube exterior: Tungsten with special processing
 Flexibility: TTF tube design that becomes more pliable towards the distal end
- **Optics**
 Field of view: 120° 100° for ø4.4mm scope
 F No.: F3.3
 Direction of view: Forward
 Can be changed to side view by using the side view mirror adaptor.(Exclusively for use on IV76)
 Depth of field: ø4.4mm: 12-50mm, ø6.0mm: 18-1,000mm
 Illumination method: LED
- **Articulation section**
 Articulation angle:
 4 way, UP/DOWN/RIGHT/LEFT 120° (IV7620X2/IV7630X2/IV7415X2/IV7430X2)
 4 way, UP/DOWN/RIGHT/LEFT 90° (IV7650X2/IV7680X2)
 Articulation control:
 Joystick control with power assist mechanism
 Manual angulation (IV7680X2)
 Weight: 0.5kg (IV7620X2/IV7415X2)/0.6kg (IV7630X2/IV7430X2)/0.8kg(IV7650X2)/1.2kg(IV7680X2)

Main unit

- **CCU**
 Brightness adjustment: 11 steps
 Long exposure: Up to 1 sec. Exposure time is set automatically.
 Boost mode: Monochrome brighter image by high gain amplifier than ordinary color image
 Zoom: Electronic linear zoom up to 3x
 On screen display: Date, time and Olympus logo (selectable)
 Menu language: English, German, French, Spanish and Japanese (selectable)
 Video output: BNC x 1, S-video x 1
- **Image recording**
 Image format: JPEG
 Medium: CF card provided as standard
 Recordable images: Over 920 images with 128MB CF card
- **LCD**
 5.6 inch TFT full color
- **Quiet mode**
 The system will operate at a slower fan speed and emit less audible noise.
- **Power supply**
 AC (AC adapter): 100-120V, 200-240V 50/60Hz
 DC (Internal battery): 14.4V Max power consumption 27W
 Battery operation time: 2.5 hours (Optional External Battery Case enables additional 2.5 hours operation)
- **Dimensions**
 200mm (W) x 220mm (H) x 80mm (D) (excluding projections)
 223mm (W) x 247mm (H) x 137mm (D) (including projections)
- **Weight**
 AC (AC adapter): 3.4kg (including LCD)
 DC (Internal battery): 3.8kg (including LCD and battery)

Carrying case

- **Dimensions**
 620mm (W) x 410mm (H) x 240mm (D) (excluding wheels)
- **Portability**
 Wheel and belt for transportation

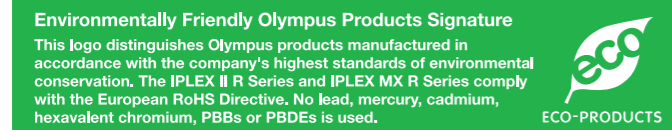
Operating Environment

Operating temperatures	Insertion tube	In air: -25 ~ 80°C (-13 ~ 176°F) Under water: 10 ~ 30°C (50 ~ 86°F)
	Other parts than above	In air: 0 ~ 40°C (32 ~ 104°F)
Operating atmospheric pressure	Insertion tube	In air: 1013 hPa Under water: 1013 ~ 1317 hPa
	Other parts than above	In air: 1013 hPa
Relative humidity		15 ~ 90%
Liquid resistance	Insertion tube, remote control	No trouble even when machine oil, light oil or 5% saline is attached.
	Other parts than above	No trouble with the IPEX MX R case outer finishing even when machine oil, light oil or 5% saline is attached.
Water proofing	Insertion tube	Waterproof: Can be used under water
	Other parts than above	Neither waterproof nor rain-proof.

Side View Mirror Adapter Specifications

Mirror adapter	Outer diameter	Direction of view	Field of view	Depth of field
AT50S-IV76X2	ø7.4mm	Forward-oblique 50°	50°	5~∞mm

- A mirror image is reflected on part of the forward-viewing image.
- After underwater use, remove the adapter immediately to clean and dry it.
- Otherwise, corrosion and expansion may make it impossible to remove or mount the adapter.
- Exclusively for use on IV76.



"Try The IPEX R Series"
<http://iplex.olympusindustrial.com>



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Accessories



- Side View Mirror Adapter**
 You can change the direction of view by mounting the side viewing tip adaptor. The diameter of the side viewing tip adaptor is ø7.4mm
 • Exclusively for use on IV76
- External Battery Case MAJ-1375**
 Attaches the second battery for an additional 2.5 hours of operation.



- Battery Charger**
 JL-2PLUS/OL-0 (115V)
 JL-2PLUS/OL-1 (220V)
 Exclusively designed to recharge IPEX MX R batteries. Charges two batteries sequentially.
- Battery**
 NP-L7S (Li-ion battery)
 Designed for the IPEX MX R. One battery lasts approximately 2.5 hours under normal operating conditions.

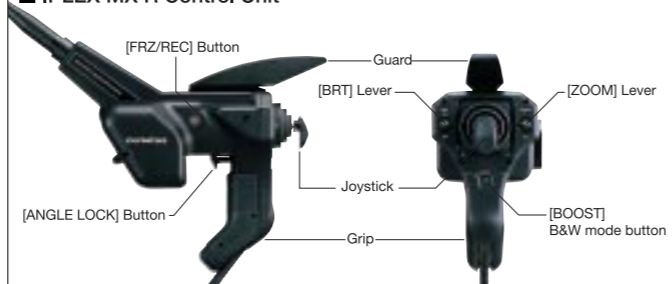


- Belt Set**
 MAJ-1377
 Exclusively for the IPEX MX R, this set includes a shoulder belt, waist belt, and scope lock belt to provide comfortable and safe transportation of equipment during use.
- AC Adapter**
 MAJ-1376N (115V)
 MAJ-1376P (220V)

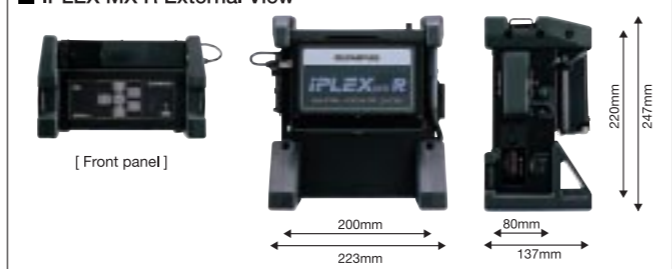


- Side View Rigid Sleeve**
 MAJ-1730 (for ø4.4mm)
 MAJ-1731 (for ø6.0mm)
 Side view rigid sleeve with prism-style LED illumination enables effective inspection of small gas turbine engines.
 • Available December 2006.
- High Magnification Adapter**
 MAJ-1566
 High magnification adapter locks onto the IPEX MXR insertion tip, providing approx. 20x high magnification observation on the MXR monitor.

IPEX MX R Control Unit



IPEX MX R External View



• OLYMPUS CORPORATION obtains the ISO9001/ISO14001.
 Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

Optimum Insertability
Maximum Mobility

Introducing Mobile IPLEX MX R for advanced maintenance: The ultimate in simple operation and mobility, with unprecedented new insertability.

- Ideal videoscope for high-resolution inspection of constricted spaces
- Super-slim insertion tube and super-short hard tip
- Built-in recording unit to save inspection images
- Compact shoulder-carry portability for maximum mobility
- Four-way power-assist articulation for optimum maneuverability

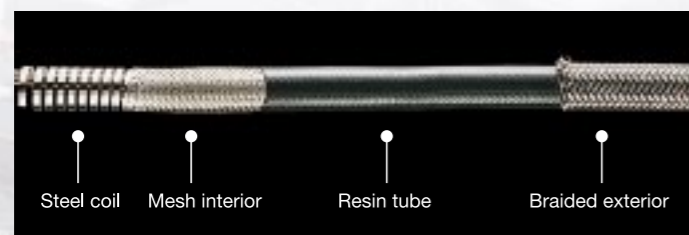
IPLEX MX R. Elevating field maintenance to a new stage.

IPLEX MX R



Insertability and durability

The IPLEX MX R supplies a slim **ø4.4mm outer diameter tube with a short 15mm hard tip and a small curvature radius** for effortless insertion ease and convenient access to minute parts. It's especially effective for high-precision jobs in intricate spaces, such as inspecting small gas turbines and heat exchanger tubes. Interchangeability with a **ø6.0mm-diameter scope** makes this system very cost effective. The Olympus-original "Tough Tapered Flex" insertion tube design provides superior insertability, and **excellent crush resistance** increases equipment reliability, reducing the overall cost of ownership.



Easy movement

Newly developed **power assist articulation¹** gives you more articulation with less work. The lower power consumption of this **four-way articulation method** means longer battery life. Just a light touch of the joystick moves the scope 120 degrees² in any direction.

¹ Excluding IV7680X2
² 90° for IV7650X2/IV7680X2



Control Section

Maximum mobility

At just 10lbs. (4.4kg), the **lightweight and portable** B5-file-size IPLEX MX R can be carried to the inspection site with just a shoulder strap, and even body mounted with safety during the entire inspection - it's that mobile! Furthermore, the system uses a large capacity, yet lightweight and compact rechargeable Lithium-ion battery providing 2.5 hours of continuous operation for uninterrupted inspections. **Extended battery stamina** can be doubled when using an optional external battery kit.

Optional illumination

For added convenience in use, the MX R system provides an optional **guide tube with an LED scope tip*** for supplementary illumination without halation distortion, which a mirror could not provide. That means you can not only insert the IPLEX MX R scope easily into tight places, but also obtain clear, well-lit views of complex internal parts or building systems.
*Available December 2006



Side view rigid sleeve



Advanced specifications

The IPLEX MX R is ideal for almost any inspection requirement, supported by an extensive array of **in-demand functions** including freeze, electronic zoom, extended exposure and digital image recording. A monochrome boost mode is also incorporated to further increase image sensitivity for low light level conditions. **Up to 230 digital images** (JPEG format) can be recorded on the provided 32MB Compact Flash card. Images can be quickly transferred to the PC for full and immediate viewing.



3x electronic zoom

Dual length convenience

Depending on the job at hand, the MX R system provides a choice of **two different effective lengths** for optimal access. There's a 5.0m length for many automotive or gas turbine inspection tasks, and an 8.0m effective length (available by special order) for jobs requiring longer insertion, such as plant maintenance.

