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Industrial Videoscope



Dramatically improve your field inspections with a palmsized, ultralight videoscope.

With its durable body and crush-resistant insertion tube with interchangeable tip adaptors, the IPLEX UltraLite is the industry's choice in handheld remote visual inspections.



Outstanding Mobility

With its unique ergonomic design, the IPLEX UltraLite videoscope fits in the palm of your hand. Because it is extremely lightweight, it can be used to perform field inspections with the greatest of ease.

Surprisingly compact and lightweight

The IPLEX UltraLite weighs only 700 g with its lithium-ion battery. This easy-to-use videoscope is so small and light that it is the perfect companion for the inspector who works in areas with limited access or in cramped spaces or has to navigate narrow stair cases and steep ladders.

Palm-sized ergonomic design
The ergonomic IPLEX UltraLite fits snugly into the palm of your hand, and provides speedy, fatigue-free operation even during prolonged inspections.





Outstanding Usability

The IPLEX UltraLite offers intuitive manipulations for efficient, accurate inspections.



Icon-based menus for instant recognition and intuitive operations

IPLEX UltraLite menus feature simple, intuitive icons that let you quickly identify and activate the desired functions.

Quick-access hot buttons

IPLEX UltraLite eliminates complicated menu settings. The IPLEX UltraLite functions can be easily operated with just one hand. By pressing dedicated, direct-access keys, you can quickly articulate the scope tip, record images, adjust brightness, and input text.

Quick, precise scope articulation

The IPLEX UltraLite features quick, accurate articulation. The scope tip instantly and accurately responds to the articulation control and approaches targets precisely, enabling fast, efficient inspections.

Versatile optical options for a variety of objects

For optimal direction and magnification covering various types of objects, the IPLEX UltraLite offers a comprehensive range of interchangeable optical tip adaptors. In addition, the bright LED mounted on the tip adaptors clearly illuminates targets.



Outstanding Quality

With its innovative, compact design, the IPLEX UltraLite offers uncompromising, industry-leading durability and image quality.

Durable chassis withstands drops and falls

The IPLEX UltraLite's durability has been thoroughly proven. It passes our 1.2 m drop test, and withstands inspection-site drops and falls. Its LCD monitor passes a steel-ball drop test from a height of 100 cm.



Insertion tube resists crushing and abrasion

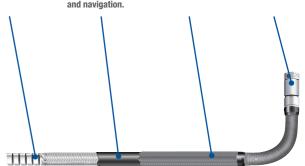
The IPLEX UltraLite's insertion tube is both crush and abrasion-resistant. It is also designed with unique Olympus Tapered Flex™ technology for outstanding scope maneuverability. With its durability and graduated flexibility, the IPLEX UltraLite insertion tube enables you to inspect objects inside winding and rough paths.



The Tapered Flex[™] tube features gradient flexibility for easy scope maneuverability and navigation.

A high-density outer braid provides maximum wear resistance and durability.

A bright LED
illumination at the
scope tip eliminate
the need for fibre
ontic bundles



Rugged design for reliable operation in harsh environments

Operators are often called on to conduct inspections in difficult environments. The IPLEX UltraLite stands up to rain, sand and dust, and is compliant with IP55.

Ideal for outdoor inspections, the IPLEX UltraLite faithfully produces brilliant images, even in sunlight.

Sharp live-image and clear movies for reliable observation and analysis

When it comes to remote visual inspections, image quality is one of the highest priorities. The IPLEX UltraLite is equipped with our unique Olympus image processor, and produces sharp and clear images. Along with its superb colour-reproducing capability, the IPLEX UltraLite enables you to accurately detect even small defects.

Observed images can be stored in a connected SD or SDHC card as high-quality JPEG still images and MPEG-4 movies.





Velded pipe

Accessories



Carrying case

Even when packed with the IPLEX UltraLite and all of its accessories, the standard carrying case weighs just 3.5 kg, and is light enough to be lifted with one finger. The lightweight package is also easy to transport and store. The interior layout of the case is well-organised and designed for efficient inspections, enabling you to remove or insert items smoothly and quickly.



Durable carrying case* MAJ-2019

This optional durable case fully protects the instrument from damage during shipment. It is small enough to fit in the overhead compartment of most aircraft, making it ideal for frequent transport.



Tripod adaptor* MAJ-2017

Makes it possible to mount the IPLEX UltraLite on a tripod for increased stability during prolonged inspections.



Rigid sleeve sets* MAJ-1253 (for 6.0 mm insertion tube)

MAJ-1737 (for 4.0 mm insertion tube)

Sets are available for 6.0 mm and 4.0 mm scopes. Each set consists of three rigid sleeves of 250 mm, 340 mm and 450 mm lengths.

Note: The carrying case can store 250 mm and 340 mm length types.



IB-1* lithium-ion battery BCS-1* charger

The battery provides approximately 90 minutes of operating time.



Optical tip adaptors*

The wide range of UltraLite
tip adaptors meets the optical
requirements of any application.

An SDHC ca
4 GB capaci
as standard.



SDHC card

An SDHC card with a 4 GB capacity is supplied



AC power adaptor

The IPLEX UltraLite can be operated with either the provided AC adaptor or the battery.

IPLEX UltraLite Specifications

M	lodel No.	IV8420U	IV8435U	IV8620U	IV8635U	
	Scope Diameter*1	ф4.	0 mm	φ6.0 n	ım	
Insertion Tube	Scope Length	2.0 m 3.5 m 2.0 m			3.5 m	
	Exterior		High-durability t	ungsten braid		
insertion Tube	Tube Flexibility	Uniform stiffness		Tough Tapered Flex™ tube wi flexibility gradually increasir toward the distal end.		
Approx. System Weight (w	ith battery)	700 g	760 g	800 g	900 g	
*1. The insertion tube can be inserted	into a ø4.0 mm or ø6.0 mm hole.					
BASIC FUNCTIONS						
Dimensions (W x D x H)			120 x 190 x	: 190 mm	I	
Articulation Angle (UP/DOWN/RIGHT/LEFT)		130° 120°				
	Articulation Mechanics	Joystick controlled scope tip articulation with articulation lock mechan				
Temperature Sensor		2-sta	age indicator for high	n temperature warnin	g	
Quick Access Buttons		The following features have dedicated quick access buttons, levers, or joysticks on the palmheld system: Live mode, Brightness, Zoom, Freez Image, Record Still/Video, Articulation Control, Menu Access, Saved Recording Index Access, Quick Last Image Recall.				
LCD Monitor		3.7 in. LCD				
Power Supply		Battery: 7.2 V, Approx. 90-minute operating time AC power: 100 V to 240 V, 50/60 Hz (with supplied AC adaptor)				
USB Connector		Version 2.0 standards				
Harsh Environment Resista	ance	Rain and dust proof (compliant with IP55), Physical shock resistance				
SOFTWARE MANIPULATIONS		•		,, ,		
Image Manipulations		5x digital seamless zoom 10-step digital brightness control (including Gain, Exposure, and Monochrome boost controls)				
Display Text Options			30-character	title display		
RECORDING MANAGEMENT FL	JNCTIONS					
Recording Media		SD/SDHC Card (4 GB standard, compatible with recommended SD/SDHC cards)				
Overlay		Selectable 30	0 character title with	date, time and syste	m setting.	
	Resolution	H640 x V480 (Pixel)				
Still image Recording	Format	Compressed JPEG format (Exif 2.1 compliant)				
	File Size	Approx. 300 KB (Approx. 13,400 images per 4 GB memory)				
	Resolution		H640 x V48	30 (Pixel)		
Movie Recording	Format	AVI format Xvid MPEG-4 Compression				
	File Size	Approx. 600 KB per second (Approx. 120 min per 4 GB memory)				
OPERATING ENVIRONMENT						
	In continue Tol		In air: –25 t	o 100 °C		
Operating Temperature	Insertion Tube	In water: 10 to 30 °C				
	Other parts than above	In air: −10 to 40 °C				
Operating Atmospheric Pressure	·	In air: 1013 hPa				
	Insertion Tube	In water: 1013 to 1368 hPa				
	Other parts than above	In air: 1013 hPa				
Relative Humidity	All parts		15 to 9			
Liquid Resistance	All parts	Operable when e		oil, light oil, or 5% s	aline solutio	
	Insertion Tube	operation when	•		Jordan	
Waterproofing		Operable underwater. Operable in rain (battery compartment must be closed).				
vvaterprooffing	Other parts than above	Operable in rain (battery compartment must be closed). Not operable underwater.				

^{*}Option

Tip Adaptor Optical Specifications

OPTICAL TIP ADAPTOR VARIATION									
	6.0 mm Viewing Tip Adaptors								
		AT40D-IV86	AT80D/NF- IV86	AT80D/FF- IV86	AT120D/NF- IV86	AT120D/FF- IV86	AT80S-IV86	AT120S/NF- IV86	AT120S/ FF-IV86
Optical system	Field of view	40°	80°	80°	120°	120°	80°	120°	120°
	Direction of view	Forward				Side			
	Depth of field*1	200 to ∞ mm	8 to ∞ mm	35 to ∞ mm	4 to 190 mm	25 to ∞ mm	18 to ∞ mm	1 to 25 mm	5 to ∞ mm
Distal end	Outer diameter*2	ø6.0 mm							
	Distal end*3	19.8 mm				25.2 mm			

		4.0 mm Viewing Tip Adaptors					
		AT120D/NF-IV84	AT120D/FF-IV84	AT120S/NF-IV84	AT120S/FF-IV84		
Optical system	Field of view	120°	120°	120°	120°		
	Direction of view	Forv	vard	Side			
	Depth of field*1	4 to 190 mm	25 to ∞ mm	1 to 20 mm	6 to ∞ mm		
Distal end	Outer diameter*2	ø4.0 mm					
	Distal end*3	19.7 mm	19.6 mm	19.6 mm 22.2 mm			

^{1.} Indicates the viewing distance with optimal focus.

^{3.} Indicates the length of the rigid portion at the scope's distal end when mounted.

TIP ADAPTOR GENERAL SPECIFICATIONS			
Locking Mechanism	Double-Threaded Attachment, with O-ring seal.		
Illumination	Multiple ultra-high intensity LEDs.		
Tip Adaptor Identification	Automatic recognition of tip adaptor attachment and detachment.		

Environmentally Friendly Olympus Products Signature

This logo distinguishes Olympus products manufactured in accordance with the company's highest standards of environmental conservation. The IPLEX UltraLite complies with the European RoHS Directive. The use of lead, mercury, cadmium, hexavalent chromium, PBBs, and PBDEs is restricted. **ECO-PRODUCTS**

OLYMPUS CORPORATION is ISO9001 / ISO14001 certified.

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^{2.} The adaptor can be inserted into a ø4.0 mm or ø6.0 mm hole when mounted on the scope.