SCOPE UNIT								
Model No.		IV9420G	IV9435G	IV9620G	IV9635G	IV9675G	IV96100G	
	Scope diameter	ø 4.0	) mm		ø 6.0	mm		
	Scope length	2.0 m 3.5 m		2.0 m	3.5 m	7.5 m	10.0 m	
Insertion tube	Exterior			High durability	tungsten braid			
	Tube flexibility	Uniform	stiffness	Tapered Flex tube with flexibility gradually increasing toward the distal end				
	Temperature sensor			2-stage indicator for hig	gh temperature warning			
Articulation section	Articulation angle up/down/right/left	13	80°	150° 120° 110°				
	Articulation operation		TrueFeel electro	nic scope tip articulation / Fine	mode articulation control by touc	ch screen menu		
Approx. weight		0.99 kg (2.2 lbs) 1.05 kg (2.3 lbs)		1.06 kg (2.3 lbs)	1.17 kg (2.6 lbs)	1.47 kg (3.2 lbs)	1.66 kg (3.7 lbs)	
Dimensions (W x D x	(H)	97 mm × 188 mm × 158 mm (3.8 in. × 7.4 in. × 6.2 in.) Protuding parts not included				ot included		
Illumination				LED illur	mination			

Model No.		IPLEX GX	IPLEX GT				
Weight (with battery)		1.77 kg (3.9 lbs)					
Dimensions (W x D x	(H)	241 mm × 190 mm × 70 mm (9.5 in. × 7.5	in. x 2.8 in.) Protuding parts not included				
Dimensions of carry	ing case	375 mm × 525 mm × 243 mm (14.8 in. × 20	7 in. x 9.6 in.) Carry-on size on most arlines				
Display		8 inch daylight view WVGA LCD with capacity-type touch screen, 5 step adjustable LCD backlight					
Α Α	AC power	100 V to 240 V, 50/60 Hz (with supplied AC adapter)					
Power supply	Battery	10.8 V nominal, approx.(with supplied battery) Battery operation time: approx. 150 minutes					
Video output standard HDMI		TypeA HDMI 1.4					
Headset (microphone in/ audio out)		ø 3.5mm mini plug CTIA					
Live image streaming		Attach the recommended USB wireless LAN adapter to the Type A USB connector					
Scope unit interchangeabilty		Available for all scope model combination Available between the same scope mo					
SOFTWARE FEATURES	3						

SOFTWARE FEATURES		
Image features	5X digital zoom, 16-s	tep brightness control
Gain control	4-step adjustable gain control(Manual, Auto, Wider1, Wider2)	Auto
Dynamic noise reduction	Available	_
Sharpness control	4-mode adjustable sharpness control	_
Saturation control	3-step adjustable control of color saturation (Monotone, Natural, Vivid)	-
Display text options	30-characte	r title display
Note text options	30-character title display, mark, free drawing	-
Image display functions	Live image can be inverted to right and left, inv	erted to up and down and rotated 180 degrees
DECORDING MANIA OFMENT FUNCTIO	NIO	

#### RECORDING MANAGEMENT FUNCTIONS

Recording media	Normal	SDHC (with supplied SDHC)						
	<b>Constant Video</b>	micro SDHC (using the recommended parts) Set the Constant video fuction to ON	_					
Internal memory		Available (only the still images are recorded)	_					
Overlay		Zoom, Brightness, Date/Time, Title, Optical Ti	Zoom, Brightness, Date/Time, Title, Optical Tip Adaptor, OLYMPUS logo, and system setting					
Thumbnail image display		Recorded images can be displayed as thumbnails						
Still image	Resolution	H768 x V576 (Pixel)						
recording	Recording format	Compressed JPEG format						
	Resolution	H768 x V576 (Pixel)						
Video recording	Recording format	MPEG 4 AVC/H.264 conforms to Baseline Profile. Windows Media Player 12 compatible						
	Frame rate	60 fps / 30 fps						

#### MEASUREMENT FUNCTIONS

WEASONEWENTTONOTIONS						
Scaler measurement	Using reference length to measure object length					
STEREO MEASUREMENT FUNCTIONS						
Distance	Distance between two points *1	-				
Point-to-line	Perpendicular distance between a point and a user-defined line *1	-				
Depth	Orthogonal depth/height distance between a point and a user-defined plane *1	-				
Area/Lines	Multiple point circumference and area measurement *1	-				

#### OPERATING ENVIRONMENT

OI LITATIING LINN	TIOIVILIVI				
	Insertion tube	In air: -25 °C to 100 °C (-13 °F to 212 °F); in water: 10 °C to 30 °C (50 °F to 86 °F)			
Operating temperature		In air: -10 °C to 40 °C (14 °F to 104 °F) (with battery)			
tomporaturo	Other parts	In air: 0 °C to 40 °C (32 °F to 104 °F) (with AC power adapter and battery charge)			
Relative humidity All parts		15 to 90%			
Liquid resistance	All parts	Operable when exposed to machine oil, light oil or 5% saline solution			
Dust proofing and water proofing	Insertion tube	Operable under water with viewing tip adaptor attached Not operable under water with stereo measurement tip adaptors IV94 series - Up to an equivalent to 3.5 m (11.5 ft) in depth IV96 series - Up to an equivalent to 10 m (32.9 ft) in depth			
	Other parts	IP65; not operable under water (battery cover and others must be closed)			

#### MIL-STD COMPLIANCE

Method
MIL-STD-810G, METHOD 514.7, Procedure I (General vibration test)
MIL-STD-810G, METHOD 516.7, Procedure IV (Transit drop test)
MIL-STD-810G, METHOD 506.6, Procedure I (Rain and Blowing rain test)
MIL-STD-810G, METHOD 507.6, Procedure II (Aggravated Cycle)
MIL-STD-810G, METHOD 509.6
MIL-STD-810G, METHOD 510.6, Procedure I (Blowing dust test)
MIL-STD-810G, METHOD 521.4
MIL-STD-810G, METHOD 511.6, Procedure I (Operation in an explosive atmosphere test)
MIL-STD-461G, RS103 Above decks

No warranty is given as to damage-free under any conditions. Please ask Olympus sales representative for details.

#### OPTICAL TIP ADAPTOR SPECIFICATIONS

6.0 mm Vie	6.0 mm viewing Tip Adaptors										
		AT40D-IV96G	AT80D/NF-IV96G	AT80D/FF-IV96G	AT120D/NF-IV96G	AT120D/FF-IV96G	AT80S-IV96G	AT120S/NF-IV96G	AT120S/FF-IV96G	AT220D-IV76	AT100D/100S-IV76
	Field of view	40°	80°	80°	120°	120°	80°	120°	120°	220°	100°/100°
Optical system Direction of view				Forward			Side			Forward	Forward/Side
зузсти	Depth of field*2	200 to ∞ mm	9 to ∞ mm	35 to ∞ mm	2 to 200 mm	19 to ∞ mm	15 to ∞ mm	1 to 25 mm	3 to ∞ mm	1.6 to ∞ mm	2.0 to ∞ mm
Distal	Outer diameter*3	<b>er</b> *3 Ø 6.0 mm Ø 6.4 mm Ø €					ø 6.0 mm				
end	Distal end*4	18.4 mm	18.9 mm	18.8 mm	18.9 mm	18.8 mm		24.2 mm		21.1 mm	29.5 mm
Oil cleari	na			Available					_		

	9					
		AT80D/	AT120D/	AT120D/	AT100S/	AT100S/
		FF-IV94G	NF-IV94G	FF-IV94G	NF-IV94G	FF-IV94G
Optical system	Field of view	80°	120°	120°	100°	100°
	Direction of view		Forward	Side		
	Depth of field*2	35 to ∞ mm	2 to 200 mm	17 to ∞ mm	2 to 15 mm	8 to ∞ mm
Distal	Outer diameter*3					
end	Distal end*4		19.0 mm	21.7 mm		
Oil clearing			Available	_		

		50D-IV94	50S-IV94	60D-IV96	/60S-IV96	
Optical system	Field of view	50°/	/50°	60°/	/60°	
	Direction of view	Forward	rd Side Forwa		Side	
	Depth of field*2	5 to ∞ mm	4 to ∞ mm	5 to ∞ mm	4 to ∞ mm	
Distal end	Outer diameter*3	ø 4.0	) mm	ø 6.0	) mm	
	Distal end*4	24.3 mm	28.4 mm	24.9 mm	31.3 mm	

N8601231-092018

- \*\*1. Upgrade for optional function.
  \*\*2. Indicates the viewing distance with optimal focus.
  \*\*3. The adapter can be inserted into a o4.0 mm , o6.0 mm and o8.4 mm hole when it is mounted on the scope.
  \*\*4. Indicates the length of the rigid portion at the scope's distal end when mounted.
- OLYMPUS CORPORATION is ISO14001 certified.
- OLYMPUS CORPORATION is ISO9001 certified.

  This product is designed for use in industrial environments for the EMC performance.
  Using it in a residential environment may affect other equipment in the environment.

  All company and product names are registered trademarks and/or trademarks of their respective owners.

  Images on the PC monitors are simulated.

  Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.



www.olympus-ims.com





Industrial Videoscope

# **IPLEX GX/GT iPLEX**

# The Right Tool for the Job



## Versatility and Power for Multiple Jobs

With interchangeable insertion tubes and light sources, an 8 inch touch screen, and advanced imaging features, the IPLEX GX/GT videoscope delivers an optimal balance of versatility, imaging capabilities, and ease of use.



Get the Most Out of Your Videoscope

### Powerful Features at Your Fingertips

- Easy-to-use touch screen and hot key controls
- Position the screen where it's comfortable for you
- Bright and clear images with smart video

### One Tool for Many Jobs

- Change between white, ultraviolet, and infrared light sources
- Interchangeable scopes in a variety of diameters and lengths
- Tough enough to work in harsh environments



## Powerful Features at Your Fingertips



IPLEX GX/GT

clear, bright images, helping you spot

38% larger

#### Convenient Controls

The large monitor leaves plenty of room to display both your inspection image and quick control buttons. Most functions can be controlled using the touch screen, including the articulation. If you want to use the full screen to view images, the hot keys on the controller give you control over the most important functions.

### Innovative Imaging Improves Inspections

#### **Bright Illumination**

The LED light source of IPLEX GX/GT is 30% brighter than its predecessor (IPLEX RX/RT).

#### Crisp images

The videoscope uses a new noise reduction algorithm to make it easier to locate problems and defects in dark areas.

#### Smooth 60 fps video

Capture smooth videos with the videoscope's high frame rate. If you are recording a moving object, you can obtain clear videos with no stutter.

Bright and Crisp images





IPLEX RX/RT (predecessor)

IPLEX GX/GT

Smooth 60 fps video





IPLEX GX/GT

#### Smart Video Recording

#### Record still images and video simultaneously

With the push of a button, you can capture still images while recording a video without interruption.

#### **Bookmark**

Add bookmarks to save time and quickly find critical moments during video reviews.



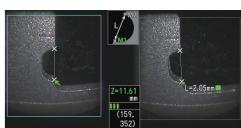
#### Constant video\*

Never lose critical inspection recordings. The videoscope automatically records the last 30 minutes of your inspection even if you forget to press the record button.

\*Available only with IPLEX GX and requires optional microSDHC card

### Powerful Measurement at Your Fingertips

The videoscope is equipped with scalar measurement as a standard feature, enabling you to size objects using a reference defect. For more advanced functionality, upgrade to the stereo measurement option to size objects using precise three-dimensional coordinates.



Point-to-line





more information.

## One Tool for Many Jobs

### Interchangeable Scopes and Light Sources. Modular Components Enable You to Adapt the Videoscope to Your Inspection Tasks

Scopes are available in 4 mm and 6 mm diameters with lengths up to 10 meters (32 feet). Interchangeable illumination modules also allow you to change between White LED, UV, or IR.

- · Scope diameter 6.0 mm: length 2.0 / 3.5 / 7.5 / 10 m
- · Scope diameter 4.0 mm: length 2.0 / 3.5 m

#### Light sources

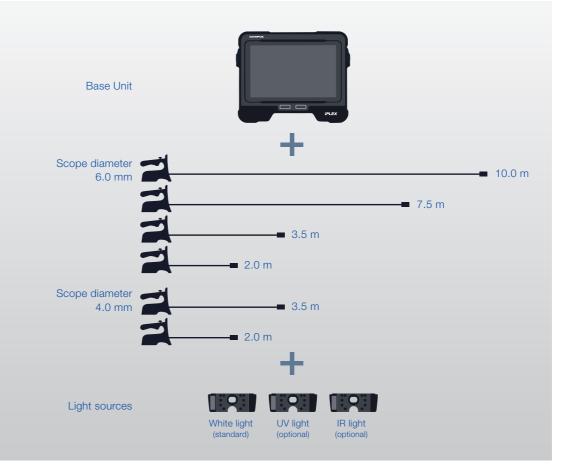
- · White light: standard inspections
- · Ultraviolet (UV): detect hairline cracks, lubricants
- · Infrared (IR): view objects in dark areas

The scopes and illumination modules can be changed on-site quickly and easily, reducing downtime.







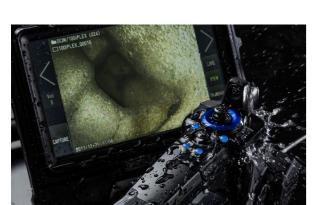




#### Stream Inspection limages for Quick Decision Making

Using the recommended USB wireless LAN adaptor, images can be shared with colleagues using smartphones or tablets during the inspection. This helps make it easy to diagnose problems with the assistance of other inspectors.

The Olympus IPLEX Image Share app is available on the App Store for compatible iOS devices.



#### Tested Tough

The videoscope is designed to meet IP65 standards for dust and water resistance and built to pass U.S. Department of Defense testing (MIL-STD) for protection against:

- Drops of up to · High humidity 1.2 meters (4 feet) Salt fog
- Vibration
- · Freezing rain Blowing rain · Electromagnetic environments
- · Explosive atmospheres
- Dust



#### See clearly in Oily Environments

The grooves on the oil clearing tip adaptor uses capillary action to draw oil away from the lens, keeping your images clear and visible so that you don't have to stop your inspection to wipe oil off of the scope's lens.





Visit our website for more information.

#### Accessories

#### Carrying Case

The hard-walled carry case is small enough to fit in the overhead bin of most airplanes, while protecting the videoscope against the rigors of travel.



### Scope Case MAJ-2339



#### Lithium-ion Battery

The battery provides up to 150 minutes of operation.

## Rigid Sleeve Sets

MAJ-1253 (for 6.0 mm) MAJ-1737 (for 4.0 mm)

Sets are available for 6 mm and 4 mm scopes. Each set comes with three rigid sleeves, measuring 250 mm, 340 mm, and 450 mm in length.

#### **Optical Adaptors**

A variety of optical adaptors for the scope enable you to change the angle, direction, and depth of view.

#### Guide Tube **MAJ-2341** (for 7.5 m) MAJ-2342 (for 10.0 m)

