

IPLEX GX/GT Features and Specifications

BASIC FUNCTIONS

SCOPE UNIT

Model No.	IV9420G	IV9435G	IV9620G	IV9635G	IV9675G	IV96100G
Insertion tube	Scope diameter	ø 4.0 mm		ø 6.0 mm		
	Scope length	2.0 m (6.6 ft.)	3.5 m (11.5 ft.)	2.0 m (6.6 ft.)	3.5 m (11.5 ft.)	10.0 m (32.8 ft.)
	Exterior	High durability tungsten braid				
	Tube flexibility	Uniform stiffness		Tapered Flex tube with flexibility gradually increasing toward the distal end		
Articulation section	Temperature sensor	2-stage indicator for high temperature warning				
	Articulation angle up/down/right/left	130°		150°		110°
	Articulation operation	TrueFeel electronic scope tip articulation / Fine mode articulation control by touch 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 x 188 mm x 158 mm (3.8 in. x 7.4 in. x 6.2 in.) Protruding parts not included					
Illumination	LED illumination					

BASE UNIT

Model No.	IPLEX GX	IPLEX GT
Weight (with battery)	1.77 kg (3.9 lbs)	
Dimensions (W x D x H)	241 mm x 190 mm x 70 mm (9.5 in. x 7.5 in. x 2.8 in.) Protruding parts not included	
Dimensions of carrying case	375 mm x 525 mm x 243 mm (14.8 in. x 20.7 in. x 9.6 in.) Carry-on size on most airlines	
Display	8 inch daylight view WVGA LCD with capacity-type touch screen, 5 step adjustable LCD backlight	
Power supply	AC power	100 V to 240 V, 50/60 Hz (with supplied AC adapter)
	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 interchangeability	Available for all scope model combination	Available between the same scope model

SOFTWARE FEATURES

Image features	5X digital zoom, 16-step 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-character title display	
Note text options	30-character title display, mark, free drawing	—
Image display functions	Live image can be inverted to right and left, inverted to up and down and rotated 180 degrees	

RECORDING MANAGEMENT FUNCTIONS

Recording media	Normal	SDHC (with supplied SDHC)	
	Constant Video	micro SDHC (using the recommended parts) Set the Constant video function to ON	—
Internal memory	Available (only the still images are recorded)		—
Overlay	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 recording	Resolution	H768 x V576 (Pixel)	
	Recording format	Compressed JPEG format	
Video recording	Resolution	H768 x V576 (Pixel)	
	Recording format	MPEG 4 AVC/H.264 conforms to Baseline Profile. Windows Media Player 12 compatible	
	Frame rate	60 fps / 30 fps	

MEASUREMENT FUNCTIONS

Scaler measurement	Using reference length to measure object length	
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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

Operating temperature	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)
	Other parts	In air: -10 °C to 40 °C (14 °F to 104 °F) (with battery) 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

Type	Method
Vibration	MIL-STD-810G, METHOD 514.7, Procedure I (General vibration test)
Shock	MIL-STD-810G, METHOD 516.7, Procedure IV (Transit drop test)
Water Resistance	MIL-STD-810G, METHOD 506.6, Procedure I (Rain and Blowing rain test)
Humidity	MIL-STD-810G, METHOD 507.6, Procedure II (Aggravated Cycle)
Salt Fog	MIL-STD-810G, METHOD 509.6
Sand and Dust	MIL-STD-810G, METHOD 510.6, Procedure I (Blowing dust test)
Icing/Freezing Rain	MIL-STD-810G, METHOD 521.4
Explosive Atmosphere	MIL-STD-810G, METHOD 511.6, Procedure I (Operation in an explosive atmosphere test)
Electromagnetic Interference (EMI)	MIL-STD-461G, RS103 Above decks

The operating environment performance is confirmed by the above MIL-STD-810G and MIL-STD-461G. 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 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	
Optical system	Field of view	40°	80°	80°	120°	120°	80°	120°	220°	100°/100°	
	Direction of view	Forward					Side				
	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 end	Outer diameter*3	ø 6.0 mm									
	Distal end*4	18.4 mm	18.9 mm	18.8 mm	18.9 mm	18.8 mm	24.2 mm		ø 8.4 mm	ø 6.0 mm	29.5 mm
Oil clearing	Available					—					

4.0 mm Viewing Tip Adaptors

	AT80D/FF-IV94G	AT120D/NF-IV94G	AT120D/FF-IV94G	AT100S/NF-IV94G	AT100S/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 end	Outer diameter*3	ø 4.0 mm				
	Distal end*4	19.0 mm		21.7 mm		
Oil clearing	Available		—			

Stereo Tip Adaptors (4.0 mm and 6.0 mm)

	AT50D/50D-IV94	AT50S/50S-IV94	AT60D/60D-IV96	AT60S/60S-IV96	
Optical system	Field of view	50°/50°		60°/60°	
	Direction of view	Forward	Side	Forward	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			
	Distal end*4	24.3 mm	28.4 mm	24.9 mm	31.3 mm

*1. Upgrade for optional function.

*2. Indicates the viewing distance with optimal focus.

*3. The adaptor can be inserted into a ø4.0 mm, ø6.0 mm and ø8.4 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.

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