

IPLEX GAir Features and Specifications

SCOPE UNIT

Model No.	IV98200GA		IV98300GA	
Insertion tube	Scope diameter	φ8.5 mm		
	Scope length	20 m	30 m	
	Exterior	High - durability tungsten braid		
	Tube flexibility	Tapered Flex insertion tube with flexibility gradually increasing toward the distal end		
Optical system	Field of view	Selectable by optical adaptor		
	Direction of view			
Illumination	LED illumination			
Articulation Section	Articulation angle (all-way)	90°		
	Articulation operation	Pneumatic articulation with built-in air compressor		

MAIN UNIT

Dimensions (W x H x D)	359 x 465 x 307 mm (protruding parts not included)			
Weight (main unit)	11.7 kg			
Approx. system weight (with battery and SDHC card)	When combined with IV98200GA: 15.3 kg		When combined with IV98300GA: 16.4 kg	
LCD monitor	8-inch daylight view WVGA LCD with capacity-type touch screen, 5 step adjustable LCD			
Video output	Type A HDMI 1.4			
Headset (microphone in/ audio out)	Φ3.5 mm mini plug CTIA			
USB connector	Type A connector, Version 2.0 standards			
Power supply	Li-Ion battery: 16 V nominal, approx. 180-minute operating time			
Recording media	Normal	SDHC (with supplied SDHC, or using the recommended Class 10 SDHC)		
	Constant Video	microSDHC (using the recommended Class 10 microSDHC)		
Image adjustment	Zoom function	Digital seamless zoom (up to 5 times)		
	Gain control	4-step adjustable gain control (Manual, Auto, WiDER1, WiDER2)		
	Dynamic noise reduction	Available		
	Sharpness control	4-step adjustable sharpness control		
	Saturation control	3-mode adjustable control of color saturation (Monotone, Natural, Vivid)		
	Display text options	Display text options		
	Display 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		
	Gravity indicator	Display gravity indicator according to the posture of scope distal end		

	Insertion length indicator	Indicates insertion length according to the drum rotation. Insertion length can be marked at arbitrary position
	Live image orientation	Depending on the attitude of the scope tip, live image can be rotated and displayed to match the gravity direction to the bottom of the LCD display
	Screen display	Content can be displayed 180 degrees rotated
Still image recording	Resolution	H640 x V480 (Pixel)
	Recording format	Compressed JPEG format
Video recording	Resolution	H640 x V480 (Pixel)
	Recording format	MPEG 4 AVC/H.264 Conforms to baseline profile; Windows Media Player 12 compatible
Wireless LAN	Directly connect to an external wireless device equipped with iOS to stream live images	
Scaler measurement	Distance between two points based on a known measurement in the same plane	

OPTICAL ADAPTOR SPECIFICATIONS

		AT120D/NF-IV98GA	AT120D/FF-IV98GA	AT120S/NF-IV98GA	AT120S/FF-IV98GA	AT220D-IV98GA
Optical system	Distal end	120°	120°	120°	120°	220°
		Forward	Forward	Side	Side	Forward
	Depth of field* ¹	4 to 190 mm	25 to ∞ mm	1 to 25 mm	6 to ∞ mm	1 to ∞ mm
Distal end	Outer diameter* ²	φ8.5 mm	φ8.5 mm	φ8.5 mm	φ8.5 mm	φ9.9 mm
	Distal end* ³	26.4 mm	26.4 mm	33.3 mm	33.3 mm	27.4 mm

*1. Indicates the viewing distance with optimal focus.

*2. The adaptor can be inserted into a φ8.5 mm and φ9.9 mm hole when it is mounted on the scope.

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

OPERATING ENVIRONMENT

Operating temperature	Insertion tube	In air: -25 to 100 °C
		In water: 10 to 30 °C
	Other parts	In air: -15 to 48 °C (with Li-Ion battery)
		In air: 0 to 48 °C (with AC power adapter)
Relative humidity	All parts	15 to 90% (relative humidity)
Liquid resistance	All parts	Operable when exposed to machine oil, light oil or 5 % saline solution
Waterproofing	Insertion tube	Operable under water with viewing tip adaptor attached
	Other parts	Not dustproof, waterproof or dripproof