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IPLEX GAir

iPLEX

Inspect Farther, Faster

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Long-distance remote visual inspections are faster and more efficient with the IPLEX™ GAir videoscope. Thoughtfully designed to ease the challenges of long-distance inspections, the IPLEX GAir videoscope enables you to flexibly maneuver up to 30 meters (98 feet) through complex piping systems with multiple elbows and then examine your target with high-quality, wide-view images and bright LED illumination.
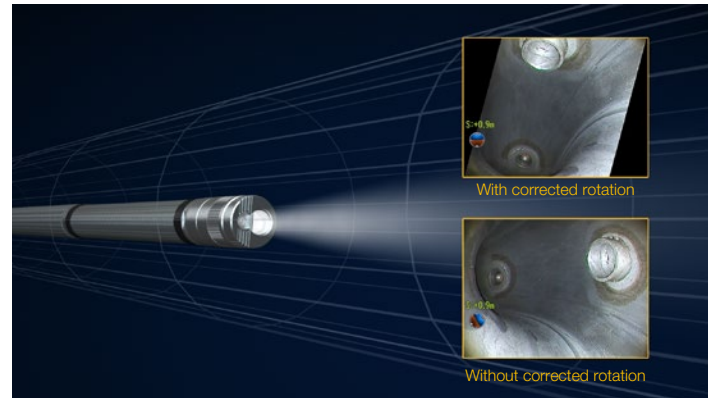
Extend Your Reach

For long-distance remote visual inspections, reaching the target quickly with easy insertion ability, intuitive navigation, and simple operation are critical for efficiency. And when you reach the target, bright illumination is required to identify defects. To meet these challenges, the IPLEX™ GAir videoscope combines maneuverability and brightness at long distances.
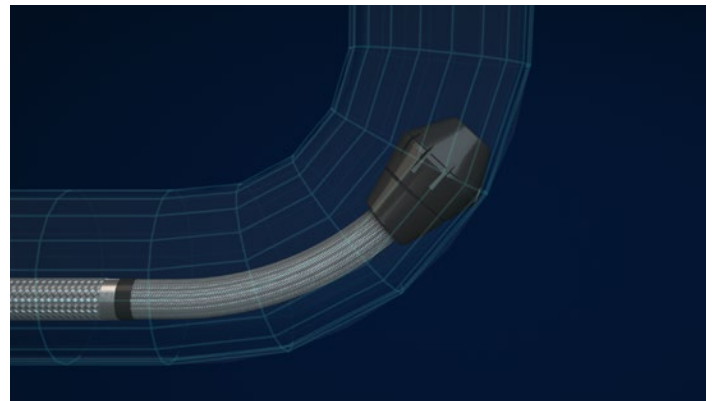
Know your location

The gravity sensor automatically rotates live images regardless of the scope's orientation, and the insertion length indicator enables you to track the insertion tube's position.

With corrected rotation

Without corrected rotation

Nimble through complex pipes

The uniquely designed scope guide head reduces friction and easily passes over joints between pipes while the universal push rod adaptor enables a smooth passage through pipes and elbows.
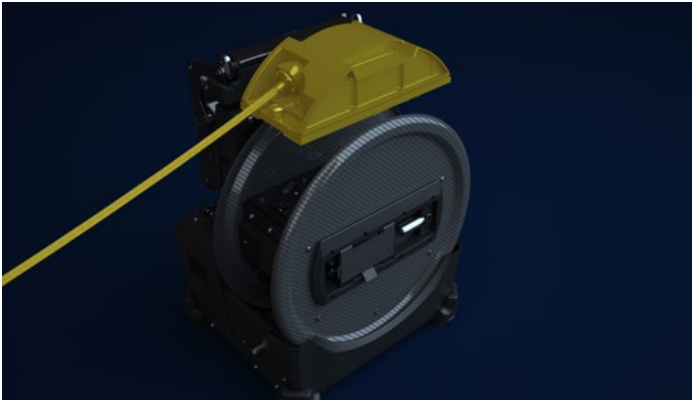

Precise articulation regardless of length

Pneumatic articulation with an integrated air compressor delivers fine control, and the Tapered Flex™ insertion tube balances stiffness and flexibility for easy maneuvering.

When you arrive at your inspection target, the IPLEX GAir videoscope's LED illumination provides a consistent level of brightness regardless of the length. The level of brightness is also adjustable, so you can reduce it when moving through small-diameter pipes and increase it when working in large spaces.

Quickly change scopes

The waterproof interchangeable scope unit enables you to do quick swaps with no special tools.

Comfortable viewing angle

Place the detachable LCD screen in an optimal position.

Easy to transport

The compact, wheeled carrying case is easy to move—when you're ready to inspect, the wheels lock to keep the unit stationary.

Faster Inspections

Built with the high-quality image sensor, brightness, and advanced image processing IPLEX™ videoscopes are known for, the IPLEX GAir videoscope provides clear wide-view images so that you can see more during your inspection.

When inspecting inside a pipe, the 220-degree fish-eye optical tip adaptor shows both the side wall and forward view at the same time. For added efficiency, the real-time image distortion correction has three modes to increase your probability of detection. These modes allow the videoscope to show distortion-corrected images with equivalent fields of view of 120, 180, and 220 degrees without changing the tip adaptor.
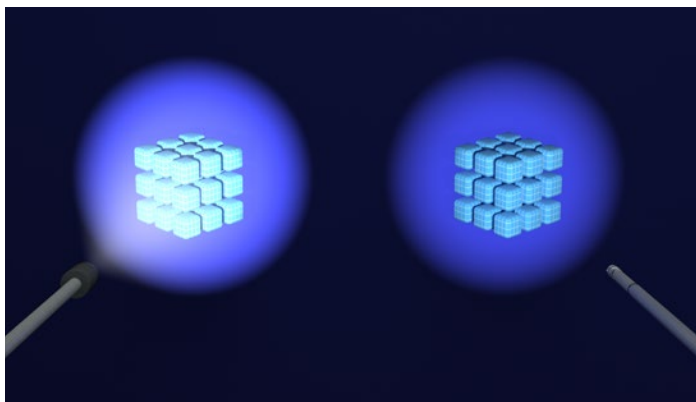
Ultra-bright illumination

Powerful LEDs located in the distal end of the insertion tube light up large spaces without the intensity decay common to other long videoscopes.

Long exposure

The long exposure mode enables a better probability of detection in very large spaces.

Automatic brightness adjustments

The PulsarPic™ processor actively adjusts the illumination to consistently provide the right level of brightness.

Efficient in oily environments

The oil-clearing tip adaptor draws oil away from the lens for clearer images and less time spent withdrawing the insertion tube to clean the lens.

See Clearly from a Safer Distance

If you need to visually inspect dangerous or hazardous areas, such as inside a nuclear power plant, the IPLEX™ GAir videoscope helps you maintain a safer distance. Adding to the protection offered by its long 30 m (98 ft) scope, the videoscope unit can be controlled from up to 100 m (328 ft) away, so you can set it up in one area and control it from a different location.

Functional from afar

The remote controller enables you to operate the videoscope's functions up to 100 m (328 ft) away, with optional transponder system.

100 m • 328 ft

Alert from distance

The remote control vibrates to alert you of a situation that could damage your videoscope, such as removing the insertion tube while articulated.

Wireless image sharing

The USB wireless LAN adapter enables you to share live images with other colleagues*

*Using a recommended third-party USB wireless adapter

Accessories

MAJ-2483
Adjustable pole

MAJ-2486
Push rod adapter

MAJ-2484
Guide head

MAJ-2482
Remote control unit

MAJ-2488
Carrying case

NP-L7S   JL-2PLUS
Li-Ion battery   Battery charger

MAJ-2485
NI-MH battery case

Other accessories

• Optical tip adapter
• MAJ-2487 5 m relay cable
• MAJ-1935 centering device

IPLEX™ GAir Videoscope Specifications

Scope Unit

Model No.		IV98200GA	IV98300GA
Insertion tube	Scope diameter	Φ8.5 mm	
	Scope length	20 m (65.6 ft)	30 m (98.4 ft)
	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 (14.1 in. × 18.3 in. × 12.1 in.) (protruding parts not included)	
Weight (main unit)	11.7 kg (25.8 lb)	
Approx. system weight (with battery and SDHC card)	When combined with IV98200GA: 15.3 kg (33.7 lb)	When combined with IV98300GA: 16.4 kg (36.2 lb)
LCD monitor	8-inch daylight view WVGA LCD with capacity-type touch screen, 5 step adjustable LCD backlight	
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 Can be connected to a USB wireless LAN adapter (recommended) or remote control unit (optional)	
Power supply	Li-Ion battery: 16 V nominal, approx. 180-minute operating time 100 V to 240 V, 50/60 Hz (with supplied AC adaptor) External battery (with typeD Ni-MH battery x8): 9.6 V	

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)
	Title text options	30-character display
	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 degrees
	Gravity indicator	Display gravity indicator according to the orientation of scope distal end
	Insertion length indicator	Indicates insertion length according to the drum rotation. Insertion length can set to zero at any length
	Live image orientation	Depending on the orientation of the scope tip, live image can be rotated and displayed to match the direction of gravity 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	Field of view	120°	120°	120°	120°	220°
	Direction of view	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	Φ10 mm
	Distal end*3	26.4 mm	26.4 mm	33.3 mm	33.3 mm	27.4 mm

Operating Environment

Operating temperature	Insertion tube	In air: -25 to 100 C° (50 °F to 86 °F)
		In water: 10 to 30 C° (50 °F to 86 °F)
	Other parts	In air: -15 to 48 C° (5 °F to 118.4 °F) (with Li-Ion battery)
		In air: 0 to 40 C° (32 °F to 104 °F) (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 Up to an equivalent to 30 m (98.4 ft) in depth
	Other parts	Not dustproof, waterproof or dripproof

*1. Indicates the viewing distance with optimal focus.
*2. The adaptor can be inserted into a ø8.5 mm and ø10 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.

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