



## Visual Inspection Kits for Industrial Plant Maintenance



Effective plant maintenance is critical to keep the facility operating both safely and successfully. Regular remote visual inspections of plant equipment help keep structures and parts in good condition to minimize the risk of facility damage and costly shutdowns.

Our visual inspection kits feature IPLEX™ videoscopes and other recommended tools for high-quality inspections of plant equipment, such as piping, heat exchangers, boilers, tanks, and vessels. These kits provide the bright, clear imaging needed to detect potential problems early and assess the life of equipment for safe plant operation.





## Bright, Clear Images

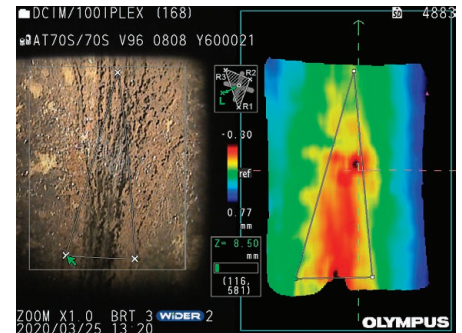
During plant maintenance, inspectors assess various types of equipment from small tubes to large tanks. The PulsarPic™ image processor on IPLEX™ videoscopes actively adjusts the brightness levels depending on the inspection target to provide bright, clear images. Further, our WiDER™ image processing technology eliminates light reflection of pipes or tanks to improve image clarity.

The videoscopes also show inspection targets in their actual colors, enabling you to find small defects such as deteriorated colors from corrosion.

## Easily Diagnose Defects

Advanced measurement functions help you diagnose and assess the severity of defects. For instance, 3D modeling on the IPLEX NX videoscope can give you a better understanding of the shape and size of corrosion with various 3D views.

Color-mapped 3D images are another advantage, enabling you to intuitively identify rust bumps and corrosion wastage.



## Quick and Precise Scope Tip Control

In plant maintenance, inspectors often need to inspect complex piping systems with many elbows and branches. TrueFeel™ responsive articulation bends the scope tip quickly and precisely, enabling you to maneuver the scope through intricate paths.

The TaperedFlex™ insertion tube optimizes stiffness and flexibility for smooth scope insertion into a pipe or tube. Various dedicated guide tubes are available to assist with scope insertion into extra-deep areas for distant targets.

## Scopes for Multiple Jobs

Our RVI kits include a range of scope lengths from 2–30 m (6.6–98.4 ft) to support inspection of various pipes and tubes. The interchangeable scope design of the IPLEX GX and IPLEX GAir videoscopes enable a quick switch to a longer or shorter scope that suits the application.



# Recommended Kits

## Handheld Kit



IPLEX G Lite Videoscope

IPLEX G Lite videoscope $\Phi$ 6 mm (0.23 in.) Scope lengths: 2 m (6.56 ft.), 3.5 m (11.5 ft.), 10 m (32.8 ft.)	IPLEX G Lite videoscope $\Phi$ 4 mm (0.16 in.), Scope lengths: 2 m (6.56 ft.), 3.5 m (11.5 ft.)
AT120D/NF-IV96G 6 mm viewing tip adaptor	AT120D/NF-IV94G 4 mm viewing tip adaptor
AT120D/FF-IV96G 6 mm viewing tip adaptor	AT120D/FF-IV94G 4 mm viewing tip adaptor
AT120S/NF-IV96G 6 mm viewing tip adaptor	AT100S/NF-IV94G 4 mm viewing tip adaptor
AT120S/FF-IV96G 6 mm viewing tip adaptor	AT100S/FF-IV96G 4 mm viewing tip adaptor
AT220D-IV76 8.4 mm viewing tip adaptor	-
Centering device for 6 mm diameter scope*	Centering device for 4 mm diameter scope*
MAJ-2342 guide tube for 6 mm diameter 10 m scope	-
Flex and stay tube, 10 mm OD (0.4 in. OD)*	

## Large 8-Inch Monitor Kit



IPLEX GX Videoscope

IPLEX GX videoscope, $\phi$ 6 mm (0.23 in.) Scope lengths: 2 m (6.56 ft.), 3.5 m (11.5 ft.), 7.5 m (24.6 ft.), 10 m (32.8 ft.)	IPLEX GX videoscope $\phi$ 4 mm (0.16 in.) Scope lengths: 2 m (6.56 ft.), 3.5 m (11.5 ft.)
AT120D/NF-IV96G 6 mm viewing tip adaptor	AT120D/NF-IV94G 4 mm viewing tip adaptor
AT120D/FF-IV96G 6 mm viewing tip adaptor	AT120D/FF-IV94G 4 mm viewing tip adaptor
AT120S/NF-IV96G 6 mm viewing tip adaptor	AT100S/NF-IV94G 4 mm viewing tip adaptor
AT120S/FF-IV96G 6 mm viewing tip adaptor	AT100S/FF-IV94G 4 mm viewing tip adaptor
AT220D-IV76 8.4 mm viewing tip adaptor	-
Centering device for 6 mm diameter scope*	Centering device for 4mm diameter scope*
MAJ-2341 guide tube for 6 mm diameter 7.5 m scope	-
MAJ-2342 guide tube for 6 mm diameter 10 m scope	-
Flex and stay tube, 10 mm OD (0.4 in. OD)*	

## 3D Visual Measurement Kit



IPLEX NX Videoscope

IPLEX NX videoscope, $\phi$ 6 mm (0.23 in.), 3.5 m (11.5 ft.), 7.5 m (24.6 ft.), 10 m (32.8 ft)
AT120D/NF-IV96N 6 mm viewing tip adaptor
AT120D/FF-IV96N 6 mm viewing tip adaptor
AT120S/NF-IV96N 6 mm viewing tip adaptor
AT120S/FF-IV96N 6 mm viewing tip adaptor
AT90D/90D-IV96N stereo tip adaptor
AT70S/70S-IV96N stereo tip adaptor
Centering device for 6 mm diameter scope*
Flex and stay tube 10 mm OD (0.4 in. OD)*

## Extra-Long Kit



IPLEX GAir Videoscope

IPLEX GAir videoscope $\phi$ 8.5 mm (0.33 in.), Scope lengths: 20 m (65.6 ft.), 30 m (98.4 ft.)
AT120D/NF-IV98GA 8.5 mm viewing tip adaptor
AT120D/FF-IV98GA 8.5 mm viewing tip adaptor
AT120S/NF-IV98GA 8.5 mm viewing tip adaptor
AT120S/FF-IV98GA 8.5 mm viewing tip adaptor
AT220D-IV98GA 10 mm viewing tip adaptor
Centering device MAJ-1935
Guide head MAJ-2484
Push rod adaptor MAJ-2486
Push rod*

Note: the kit comes with recommended items, but you can also select items to customize your kit.  
\*Third-party product.

# Accessories



## Flex and Stay Tube

Pliable yet rigid tube that can be shaped freely. Easily bend the tube in any shape to reach an object for remote visual inspection.

The outer diameter is 10 mm (0.39 in.)



## Centering Device

Holds the insertion tube centered inside a pipe or tube. Available for scopes with a diameter of 4 mm (0.16 in.), 6 mm (0.23 in.), and 8.5 mm (0.33 in.).



## Flexible Guide Tube

Increasing the insertion tube's rigidity, the flexible guide tube assists you in inserting the scope to reach deeper areas. Available for 7.5 m (24.6 ft) and 10 m (32.8 ft) scopes.



## Guide Head

Attach the guide head on the scope tip to ease its passage over the joints of a pipe, reducing the friction against the pipe's inner surface. Available for 20 m (65.6 ft) and 30 m (98.4 ft) scopes.



## Push Rod Adaptor

Mounts the push rod onto the scope. The combination of the push rod and the dedicated adaptor enables the scope to pass over elbow joints to reach deep into a pipe. Available for 20 m (65.6 ft) and 30 m (98.4 ft) scopes.



**EVIDENT CORPORATION is ISO9001 and ISO14001 certified.**  
All specifications are subject to change without notice.

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