

## Visual Inspection Kits for Aviation Turbines



Routine remote visual inspection is essential for the safe operation of aircraft. Our visual inspection kits include IPLEX™ videoscopes and other recommended tools for high-quality inspections of aviation turbines.





## High-Quality Imaging

Exceptional image quality helps you quickly locate indications for faster decision-making and enhanced efficiency.

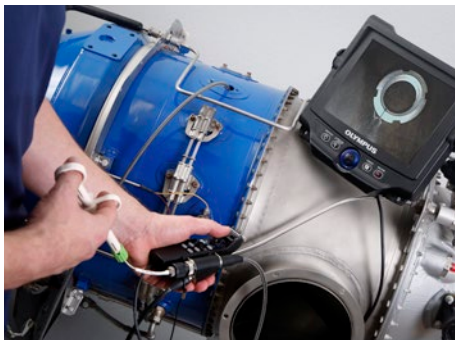
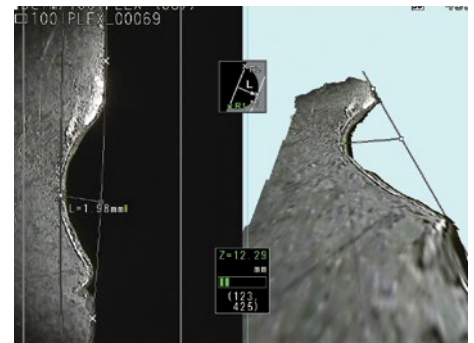
Get a clear view of everything from a large space in a combustion chamber to a closeup on a compressor blade.

## Powerful Measurement Features

IPLEX videoscopes offer powerful measurement features for fast, efficient inspections.

Super wide field stereo measurement provides expanded coverage, while 3D modeling makes it easy to choose the right measurement point by showing views of your target from multiple angles.

The Multi Spot-Ranging™ function helps you easily recognize if the videoscope tip is in a measurable range and delivers real-time information about the surface shape during the inspection.



## Scopes for Multiple Jobs

Access interchangeable scopes in various diameters and lengths to perform different types of engine inspections with one IPLEX system. Plus, the spare scopes can help reduce downtime if a scope repair is needed.

With similar capabilities as a standard insertion tube, the working channel scope is a useful backup that can also be used for foreign object debris (FOD) detection and retrieval. With a backup scope in your toolbox, you can avoid unnecessary and costly engine removals or teardowns.

## Access Hard-to-Reach Spaces

Various guide tubes enable access to spaces that are difficult to reach with only a scope. Our guide tubes are designed to help you inspect everything from combustion chambers to high-pressure turbines and nozzle vanes.

Simply insert the scope using a guide tube to reach the target area and perform the inspection quickly and efficiently.



# Recommended Kits

## 3D Visual Measurement Kit



IPLEX NX Videoscope

IPLEX NX videoscope, $\phi$ 6 mm (0.23 in.), 3.5 m (11.48 ft)	IPLEX NX videoscope, $\phi$ 4 mm (0.16 in.), 3.5 m (11.48 ft)
AT120D/NF-IV96N 6 mm viewing tip adaptor	AT120D/NF-IV94N 4 mm viewing tip adaptor
AT120S/FF-IV96N 6 mm viewing tip adaptor	AT100S/FF-IV94N 4 mm viewing tip adaptor
AT80D/FF-IV96N 6 mm viewing tip adaptor	AT80D/FF-IV94N 4 mm viewing tip adaptor
AT90D/90D-IV96N stereo tip adaptor	AT70D/70D-IV94N stereo tip adaptor
AT70S/70S-IV96N stereo tip adaptor	AT50S/50S-IV94N stereo tip adaptor
MAJ-1253 Rigid sleeve for $\phi$ 6 mm scope	MAJ-1737 rigid sleeve for $\phi$ 4 mm scope
J-shaped guide tube for $\phi$ 6 mm scope*	J-shaped guide tube for $\phi$ 4 mm scope*
S-shaped guide tube for $\phi$ 6 mm scope*	-
Heat resistant sheath for $\phi$ 6 mm*	Heat resistant sheath for $\phi$ 4 mm*
Flex and stay tube 10 mm OD (0.4 in. OD)*	

\*Third-party product.

## Stereo Measurement Kit



IPLEX GX Videoscope

IPLEX GX videoscope, $\phi$ 6 mm (0.23 in.), 2 m (6.56 ft)	IPLEX GX videoscope, $\phi$ 4 mm (0.16 in.), 2 m (6.56 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/FF-IV96G 6 mm viewing tip adaptor	AT100S/FF-IV94G 4 mm viewing tip adaptor
AT80D/FF-IV96G 6 mm viewing tip adaptor	AT80D/FF-IV94G 4 mm viewing tip adaptor
AT60D/60D-IV96 stereo tip adaptor	AT50D/50D-IV94 stereo tip adaptor
AT60S/60S-IV96 stereo tip adaptor	AT50S/50S-IV94 stereo tip adaptor
MAJ-1253 rigid sleeve for $\phi$ 6 mm scope	MAJ-1737 rigid sleeve for $\phi$ 4 mm scope*
J-shaped guide tube for $\phi$ 6 mm scope*	J-shaped guide tube for $\phi$ 4 mm scope*
S-shaped guide tube for $\phi$ 6 mm scope*	-
Heat resistant sheath for $\phi$ 6 mm*	Heat resistant sheath for $\phi$ 4 mm*
Flex and stay tube 10 mm OD (0.4 in. OD)*	

\*Third-party product.

## 3D Visual Measurement Kit with Working Channel



IPLEX NX Videoscope with Working Channel

IPLEX NX videoscope with working channel, $\phi$ 6.2 mm (0.24 in.), 3.5 m (11.48 ft)
AT80D-IV96X1N 6.2 mm viewing tip adaptor
AT120D/NF-IV96X1N 6.2 mm viewing tip adaptor
AT120D/FF-IV96X1N 6.2 mm viewing tip adaptor
AT80S-IV96X1N 6.2 mm viewing tip adaptor
AT120S-IV96X1N 6.2 mm viewing tip adaptor
AT70D/70D-IV96X1N stereo tip adaptor
AT60S/60S-IV96X1N stereo tip adaptor
MAJ-1245 hook assembly
MAJ-1353 snare
MAJ-1355 basket
MAJ-1356 grasper
MAJ-1354 alligator
MAJ-1357 magnet
MAJ-1253 rigid sleeve
Flex and stay tube 10 mm OD (0.4 in. OD)*
J-shaped tube for $\phi$ 6 mm scope*
S-shaped tube for $\phi$ 6 mm scope*

\*Third-party product.

Note: the kit comes with recommended items, but you can also select items to customize your kit.

# 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.

Outer diameter is 10 mm (0.39 in.)



## J-Shaped Tube

A useful guide tube if you want the scope to reach a location that is against the direction of gravity or to move in a certain direction. The J-shape is optimized for general combustion chamber inspections.

Outer diameter is 8 mm (0.31 in.) and 10 mm (0.39 in.)



## S-Shaped Tube

A useful guide tube if you want the scope to reach a location that is against the direction of gravity or to move in a certain direction. The S-shape is optimized for high-pressure turbine inspections.

Outer diameter is 10 mm (0.39 in.)



## Rigid Sleeve

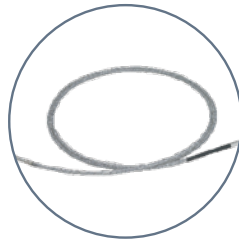
MAJ1737 (Rigid sleeve for 4 mm (0.16 in.) insertion tube)  
MAJ 1253 (Rigid sleeve for 6 mm (0.24 in.) insertion tube)

Each set comes with three rigid sleeves, measuring 250 mm (9.84 in.), 340 mm (13.38 in.), and 450 mm (17.71 in.) in length. The rigid sleeve can be fixed on the flexible insertion tube to straighten it for insertion into aviation gas turbines.



## Internal Retrieval Tools

Six internal retrieval tools enable you to remove foreign objects and perform hook-and-drag inspections in aviation turbines.



## Heat-Resistant Sheath

The sheath minimizes the temperature restrictions placed on standard videoscopes for gas turbine and other applications where high-temperature (250 °C, 482 °F) inspection capabilities may be required.

[www.olympus-ims.com](http://www.olympus-ims.com)



**OLYMPUS CORPORATION is ISO9001 and ISO14001 certified.**

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