



Scholly Fibrescopes

High resolution with tough construction

Fibrescopes are constructed for tough industrial handling. Five layers of protective coverings - stainless steel, nylon, PVC, steel braiding and silicon - protect the fibre bundle from external damage, water and dust. This sheathing offers excellent resistance to crushing, over binding and stretching. The fibre bundle itself represents the state of the art in the fibre technology.

Scholly uses a unique single fused quartz fibre made up of thousands of individual image points (or pixels), each having a diameter of less than 3 microns. This means superb resolution without the normal honeycomb pattern or black dots associated with glass fibre bundles. Precision image fibre cutting and polishing techniques further increase picture quality and allow us to custom build Fibrescopes to practically any length.

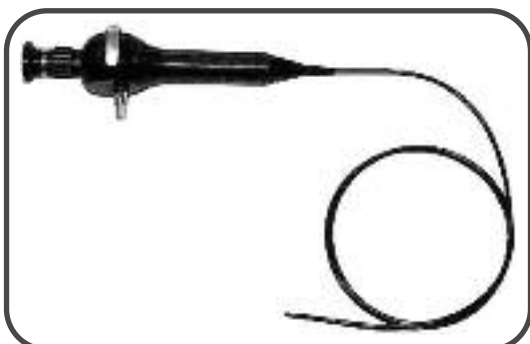
This technology also means that for the first time, image guides are repairable, thus dramatically reducing repair costs and the overall cost of ownership. A diopter control allows precise focusing of the image to suit varying eye sights and camera systems.

1. Super High Resolution Fibrescopes

The ultimate optical instruments for tests and inspections of inaccessible areas in turbines, tubes, tanks, etc. High flexibility combined with robustness ensure excellent results for all NDT applications even with very small working diameters. These Fibrescopes use a high resolution Image Bundle and provide a sharp, high contrast image. All Fibrescopes come with a lens integrated into the tip of the instrument making them pressure resistant (water tight to 1.2 bar) over the working length. Optional lens tips are also available to provide different 'Viewing Directions' and 'Fields of View'. These optional tips are screwed onto the integrated lenses and do not effect the water tight properties of the instrument.

Technical Data

- High resolution image guide with good contrast.
- One hand operation due to ergonomically designed hand section and control levers.
- Standardized eyepiece and light guide connections (ACM) guarantee high versatility.
- Water tight over complete working length.
- 2 way & 4 way tip deflection with small bending radius for high flexibility.
- Temperature resistant from -10° to +85° C (-50° to +185° F).
- Pressure resistant up to 1.2 bar (17.4 LB/in 2.)



“Making a Visible Difference”



Optional Lenses

Part Number	Diameter (mm)	V.D	F.o.V
WOFS.550080	5.5	0°	80°
WOFS.559050	5.5	90°	50°
WOFS.559090	5.5	90°	90°
WOFC.800080	8.0	0°	80°
WOFC.809050	8.0	90°	50°
WOFC.809090	8.0	90°	90°

Optional Mirror Tips

Part Number	Diameter (mm)	V.D
SPFS.4390	4.3	90°

Available Models

Part Number	Diameter (mm)	Length (mm)	Tip Deflection	V.D	F.o.V	Image Bundle
29030.0070.PV2X	2.9	300	2 x 140°	0°	70°	Quarz
29075.0070.PV2X	2.9	750	2 x 120°	0°	70°	Quarz
29100.0070.PV2X	2.9	1000	2 x 110°	0°	70°	Quarz
29125.0070.PV2X	2.9	1250	2 x 100°	0°	70°	Quarz
38030.0080.PV2X.PU	3.8	300	2 x 160°	0°	80°	Conv
38072.0080.PV2X.PU	3.8	750	2 x 160°	0°	80°	Conv
38125.0080.PV2X.PU	3.8	1250	2 x 160°	0°	80°	Conv
43030.0040.PV2X.PU	4.3	300	2 x 160°	0°	40°	Conv
43072.0040.PV2X.PU	4.3	750	2 x 160°	0°	40°	Conv
43125.0040.PV2X.PU	4.3	1250	2 x 160°	0°	40°	Conv
55130.0040.ST4X	5.5	1300	4 x 120°	0°	40°	Conv
55180.0040.ST4X	5.5	1800	4 x 120°	0°	40°	Conv
80130.0040.ST4X	8.0	1300	4 x 120°	0°	40°	Conv
80180.0040.ST4X	8.0	1800	4 x 120°	0°	40°	Conv

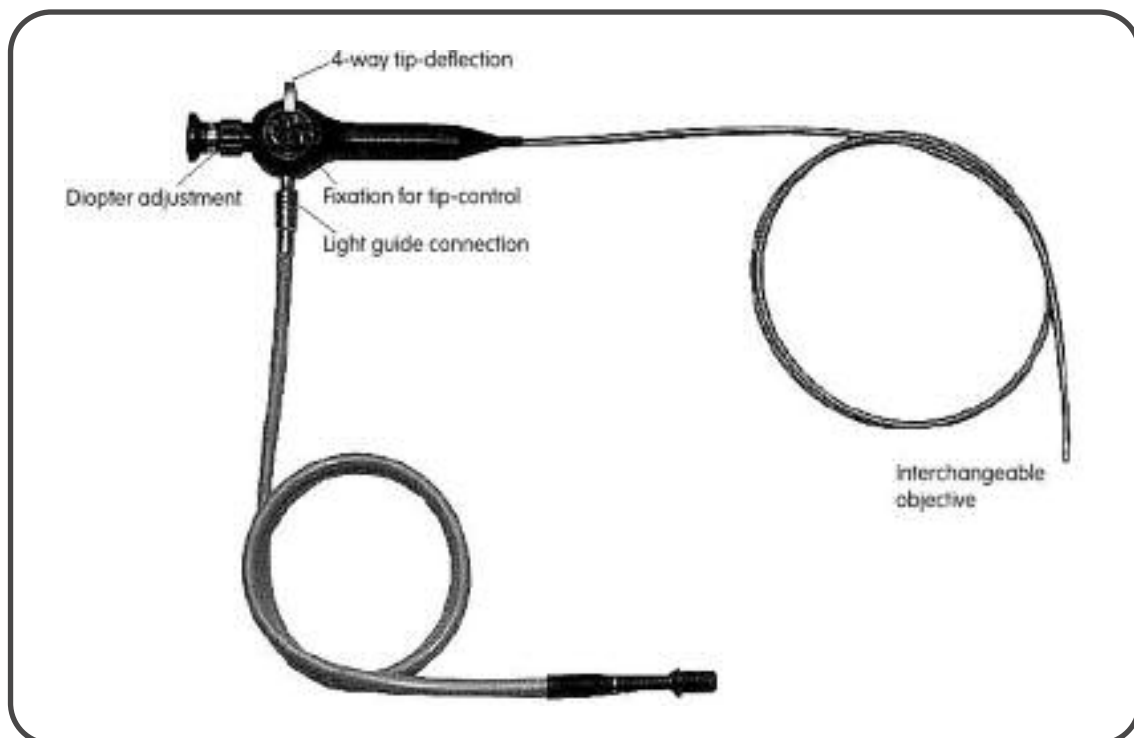


2. Standard Resolution Universal Fibrescopes

The ultimate in universal optical instruments for tests and inspections of inaccessible areas in turbines, tubes, tanks, etc. High flexibility combined with robustness ensure excellent results for all NDT applications even with small working diameters. These Fibrescopes do not have a built in lens at the tip and must be purchased with an application specific lens tip as listed below. Due to the screw on nature of the lens tip, these scopes are not water tight or pressure resistant.

Technical Data

- High resolution image guide with good contrast.
- One-hand operation due to ergonomically designed hand section and control levers.
- Standardized eyepiece and light guide connections (ACM) guarantee high versatility.
- Water tight over complete working length.
- 2 way & 4 way tip deflection with small bending radius for high flexibility.
- Temperature resistant from -10° to $+85^{\circ}$ C (-50° to $+185^{\circ}$ F).





Available Models

Part Number	Diameter (mm)	Length (mm)	Tip Deflection
64150.ST4X	6.4	1500	4 x 140°
64200.ST4X	6.4	2000	4 x 140°
64300.ST4X	6.4	3000	4 x 120°
80150.ST4X	8.0	1500	4 x 140°
80200.ST4X	8.0	2000	4 x 140°
80300.ST4X	8.0	3000	4 x 120°
80400.ST4X	8.0	4000	4 x 120°
80600.ST4X	8.0	6000	4 x 70°
11200.ST4X	10.8	2000	4 x 120°
11300.ST4X	10.8	3000	4 x 120°
11400.ST4X	10.8	4000	4 x 100°
11500.ST4X	10.8	5000	4 x 100°
11600.ST4X	10.8	6000	4 x 70°





Available Lenses

Part Number	Diameter (mm)	V.D	F.o.V
WOFS.640040	6.4	0°	40°
WOFS.6400100	6.4	0°	100°
WOFS.644550	6.4	45°	50°
WOFS.649050	6.4	90°	50°
WOFS.6411050	6.4	110°	50°
WOFS.800040	8.0	0°	40°
WOFS.8000100	8.0	0°	100°
WOFS.804550	8.0	45°	50°
WOFS.809050	8.0	90°	50°
WOFS.8011050	8.0	110°	40°
WOFS.110040	10.8	0°	40°
WOFS.1100100	10.8	0°	100°
WOFS.114550	10.8	45°	50°
WOFS.119050	10.8	90°	50°
WOFS.1111050	10.8	110°	50°

Mirror Attachments

Part Number	Diameter (mm)	V.D
SPFS.6470	6.4	70°
SPFS.6490	6.4	90°
SPFS.64110	6.4	110°
SPFS.8070	8.0	70°
SPFS.8090	8.0	90°
SPFS.80110	8.0	110°
SPFS.1170	10.8	70°
SPFS.1190	10.8	90°
SPFS.11110	10.8	110°

To be used with 0° / 40° Lens.

Color coding :

70° = Green, 90° = Red, 110° = Yellow.

