

Fiberscopes

1. Recommended Applications

The perfect instrument for every kind of remote visual inspections. IT Concepts Fiberscopes provide bright clear images from internal cavities, like turbines, compressors, pipes, tanks and other hard to reach areas. IT Concepts fiberscopes are especially designed for all industrial applications. The tough and resistant design allows inspections in almost every environment.

For special Applications:

- High- Resolution Images
Fiberscopes with high resolution image guides providing a sharper image and showing more details of the inspection surface.
- UV- Inspections
For inspection with UV light sources all fiberscopes can be delivered with quartz illumination fibers. The quartz fibers can transmit the UV light and will provide more intense output to stimulate UV- sensitive dyes and penetrants.

2. Unique Selling Points

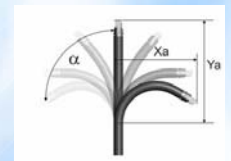
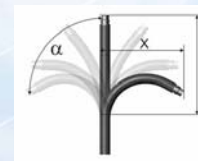
- Complete range of models with (2.4 mm/ 3.5 mm/ 4.0 mm/ 6.0 mm/ 8.0 mm)
- 2-way & 4-way tip control
- Full range of accessories
- Wear resistant tungsten braid over a PU protected stainless steel monocoil to withstand immersion in water, mineral and synthetic lubricating oils, hydraulic fluids and aviation fuel (Kerosene, Gasoline & Diesel fuel)
- One hand operation control with unique brake mechanism
- Interchangeable tip adapter for 90° side view inspections
- Integrated light guide cable with glass or quartz light guide for maximized transmission or optional with ACMI light post as IT Concepts K- Version available
- Interchangeable light guide adapters
- DIN eyepiece to connect camera systems with a C-mount coupler



3. Specifications

Model	Probe ø	Working length	Articulation n	Articulation angle	Field of View	Direction of View	Focal Length	Side View Tip	Resolution	Tube Braid
2mm – 2-way										
ART2-2-040	2.4mm	0.4m	2-way	±120°	45°	0°	5 - ∞	No	6000	Tungsten
ART2-2-070	2.4mm	0.7m	2-way	±120°	45°	0°	5 - ∞	No	6000	Tungsten
ART2-2-100	2.4mm	1.0m	2-way	±120°	45°	0°	5 - ∞	No	6000	Tungsten
ART2-2-130	2.4mm	1.3m	2-way	±120°	45°	0°	5 - ∞	No	6000	Tungsten
3mm – 2-way										
ART2-3-070	3.5mm	0.7m	2-way	±120°	50°	0°	5 - ∞	No	8000	Tungsten
ART2-3-100	3.5mm	1.0m	2-way	±120°	50°	0°	5 - ∞	No	8000	Tungsten
ART2-3-130	3.5mm	1.3m	2-way	±120°	50°	0°	5 - ∞	No	8000	Tungsten
ART2-3-150	3.5mm	1.5m	2-way	±120°	50°	0°	5 - ∞	No	8000	Tungsten
4mm – 2-way										
ART2-4-100*	4.0mm	1.0m	2-way	±120°	50°	0°/90°	5 - ∞	Yes	11500	Tungsten
ART2-4-130*	4.0mm	1.3m	2-way	±120°	50°	0°/90°	5 - ∞	Yes	11500	Tungsten
ART2-4-150*	4.0mm	1.5m	2-way	±120°	50°	0°/90°	5 - ∞	Yes	11500	Tungsten
ART2-4-200	4.0mm	2.0m	2-way	±120°	50°	0°/90°	5 - ∞	Yes	11500	Tungsten
6mm – 2-way										
ART2-6-100	6.0mm	1.0m	2-way	±120°	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART2-6-150	6.0mm	1.5m	2-way	±120°	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART2-6-200	6.0mm	2.0m	2-way	±120°	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART2-6-300	6.0mm	2.7m	2-way	±120°	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
6mm – 4-way										
ART4-6-100	6.0mm	1.0m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART4-6-150	6.0mm	1.5m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART4-6-200	6.0mm	2.0m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
ART4-6-300	6.0mm	2.7m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	12000	Tungsten
8mm – 4-way										
ART4-8-100	8.0mm	1.0m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	16000	Tungsten
ART4-8-150	8.0mm	1.5m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	16000	Tungsten
ART4-8-200	8.0mm	2.0m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	16000	Tungsten
ART4-8-300	8.0mm	2.7m	4-way	+/- 100° L/R 160° UP / 130° DW	60°	0°/90°	5 - ∞	Yes	16000	Tungsten

Model	α	X	Xa	Y	Ya
ART2-2-...	±120°	19.0	-	19.5	-
ART2-3-...	±120°	22.0	-	23.0	-
ART2-4-...	±120°	22.0	25.5	23.0	26.5
ART2-6-...	±120°	44.0	48.0	45.0	49.0
ART4-6-...	+/- 100° L/R 160° UP / 130° DW	50.0	54.0	70.0	77.5
ART4-8-...	+/- 100° L/R 160° UP / 130° DW	51.0	55.0	76.0	83.5



Environment Parameters	Minimum	Maximum
FlexiblePortion		+80 °C
air temperature of operation	-10 °C	
water temperature of operation	0 °C	+30 °C
range of pressure in air	1 at	1.3 at
range of pressure in water	1 at	1.3 at
flexible portion is stable in a water solution of 5% NaCl		
The flexible Portion is made according to the protection class IP68		
Handle and light guide		
air temperature of operation	-10 °C	+50 °C
range of pressure in air	1 at	1.3 at
water resistance - to light splashes or drops hitting the device		



4. Connectivity and recommended Accessories

For documentation and image capturing purposes IT Concepts Fiberscopes can be connected to a full range of accessories, for example:

- C- Mount Adapter for coupling all kind of cameras:
TV adapters with 16mm, 25mm, 35mm and 40 mm focal length
Digital camera adapter
- Video and digital cameras for documentation:
Color video camera
- Monitors and display for enlarged images:
Palm view hand held display
- Image capturing and storage devices:
iTool Audio- & Image recorder
iCapture smart
iCapture
- Several , different light sources for all kind of illumination:
5 Watt LED light source
10 Watt metal halide light handle
24 Watt metal halide light source
50 Watt metal halide light source
75 Watt halogen light source
- Interchangeable light guide adapters for all kind of light source connectors
- 90° Side View tip adapter for side inspections
- Battery packs for increased mobility:
Power battery belt

With these accessories every single fiberscope can be completed to video system for any kind of industrial application.



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