

Rigid Borescope

MEDIT RIGID BORESCOPE SERIES

«See it Clear the First Time»

- ▶ **Robust stainless steel design**
- ▶ **Computer-optimized lens system**
- ▶ **High-quality coated optics**
- ▶ **Clear image quality with low-distortion**
- ▶ **Water tight and resistant to a variety of solutions**



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MEDIT's Rigid Borescopes are computer designed and manufactured to comply with up to date standards for a wide range of industrial applications. These Rigid Borescopes provide clear, bright images for standard industrial inspections.

The resolution and image quality are crystal clear thanks to high quality Hopkins glass optics, and rod lenses.

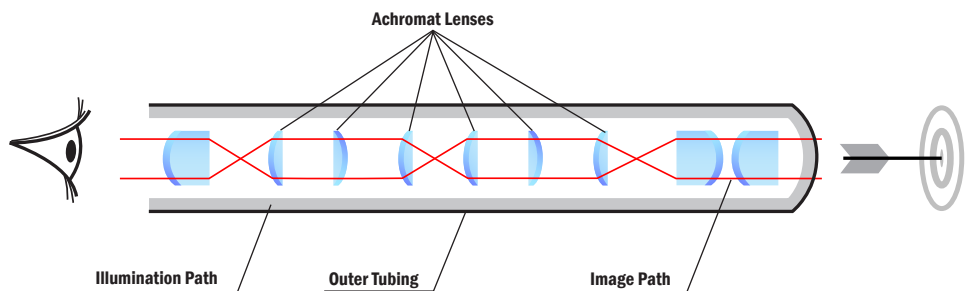
These can be used in a wide range of applications including; aviation, machinery, automotive, engine inspection, electrical, piping, locksmith, and other areas.

Rigid borescopes also provide images with significantly higher resolutions than flexible fiberscopes and videoscopes. You need to carefully consider if you really need a flexible scope. Other features compared to flexible scopes are robust construction, lower purchase and repair costs, and higher light intensity.

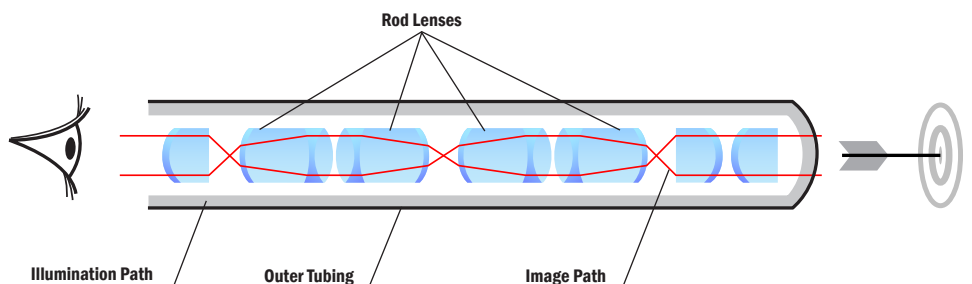
Why Rod lenses?

The main criteria for selecting a borescope is typically the image clarity. For similar-quality instruments, the largest rigid borescope that will fit the hole will give the best image.

Some manufacturers use an achromatic lens system where two or more lenses with different properties are combined to prevent distortion or chromatic aberration. It's expensive to manufacture, and color correction is not as good as with rod lens borescopes. Also, the field of view is narrower than the rod lens units.



Now a days the best borescopes use rod lens systems with spherical lenses cemented to homogeneous glass rods. Due to improvements in the design of Rod Lenses compared to achromatic, these now feature a wider field of view, brighter image and better reproduction of the colors. It also allows the lenses to be used in smaller diameter borescopes. Small Glass Rods Relay Images with Higher Contrast than Achromatic Lenses.



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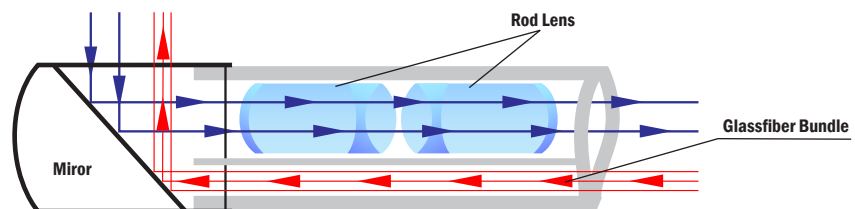
Why Prism Lenses?

Another features of our rigid borescopes are the prism lenses built into the tips. Prism lenses allow alternate directions of view including; 30°, 70°, 90° and 110°. Since the image and illumination are completely independent, prism borescopes are particularly well suited for maximum image clarity and contrast in the inspection area.

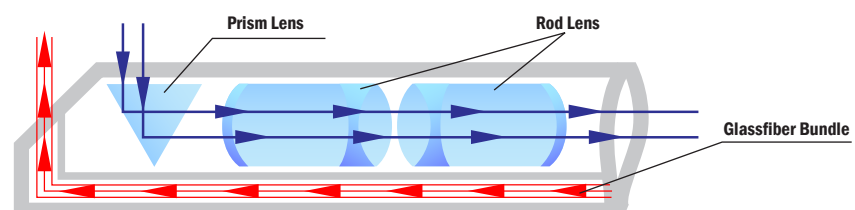
Prism borescopes also give “right reading” images compare to mirror tips, making them easier and more intuitive to control. Specially designed prism lenses also minimize glare, making them a better choice for inspection of highly reflective surface areas.



Picture captured with MEDIT USB ImagePRO video camera from borescope with a mirror tip



Picture captured with MEDIT USB ImagePRO video camera from prism borescope



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Technical Specification

Angle of view	0°, 30, 70, 90, 110
Field of view	50°-55
Depth of view	5mm – infinity
Optical system	Glass Rod lenses
Insertion tube diameter	2.7mm, 4mm, 5mm, 6mm
Insertion tube length	175mm, 302mm, 430mm, 600mm
Waterproof	soakable in water, diesel, gasoline, brake fluid, avgas, antifreeze, motor oil, gear oil and kerosene
Operating temperature	10-80° C (50-176°F)
Light post connection	ACMI, STORZ, WOLF 32mm standard round rigid scope Eyepiece

ILLUMINATION

Illuminating the inspection area is completed using glass fiber optics built into the body of the scope. The light is generated externally via a light source, in most cases a portable light handle works well. However, for long working distances, deep inspection areas, or dark hollow cavities, we recommend using a metal halide fixed light source which plugs into an outlet and provides you with a constant stream of bright light.

VIDEO INSPECTION

For clients looking to document inspections, we offer the ImagePRO video cameras. These cameras are specially designed to work with our industrial borescopes, and are available in TV and USB versions. These cameras feature good image resolution with a compact design and easy operation. All of our cameras connect to the borescopes through a C-mount coupler which allows you to adjust the focus.

AVAILABLE AS A BUNDLE:

