

Portable Dual-Light Borescope for Security and EOD Applications



We have been supplying our industrial borescopes for NDT applications in this region.

In recent years, the need to detect and dispose of bombs (EOD / IEDD) has increased considerably to counter terrorist activities. In addition to the smuggling of drugs, illegal aliens and other contraband, the threat of terrorism has now extended beyond Government personnel to include a variety of organizations and individuals.

For applications such as these, portability is obviously important and our industrial borescopes have a wide selection of lightweight, compact, yet versatile portable systems, designed for rapid deployment for EOD and security operation as well.

We offer a total system which incorporates non-conductive materials, and digital image recording to create reports or gather evidence. Our industrial range of Remote Visual Inspection (RVI) devices include video scopes, flexible fiberscopes, rigid borescopes, super-thin mini fiberscopes for lock inspections, and video and USB camera units, which enable rapid and effective inspections. Searches of buildings, vehicles, ships, aircraft and freight, in fact any areas which are difficult to access, can be carried out efficiently and with minimal disruption using our equipment to produce real time visual images.



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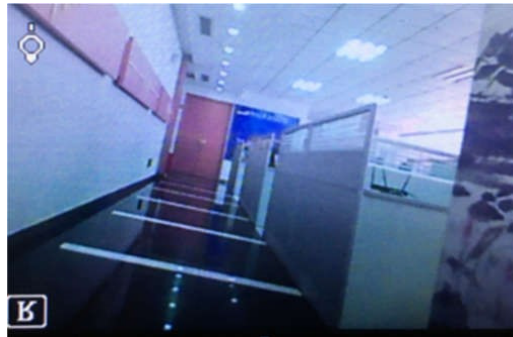
FEATURES

1. Infrared and white light can be switched at will to meet different detection requirements.
 - Emits 940nm invisible infrared light source, which can achieve an effective observation distance of up to 20 meters in a dark environment.

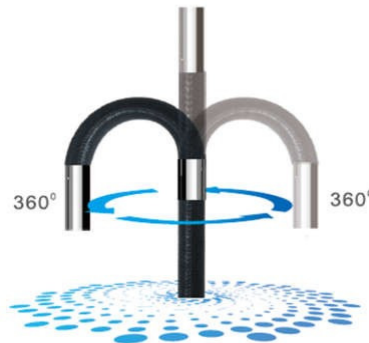


The effect of infrared camera in dark environment

- Emits 5000K visible light source, and the illuminance can be over 60000 Lux.



2. Flexible control - 360° mechanical steering function, one-way can flexibly bend for 180°



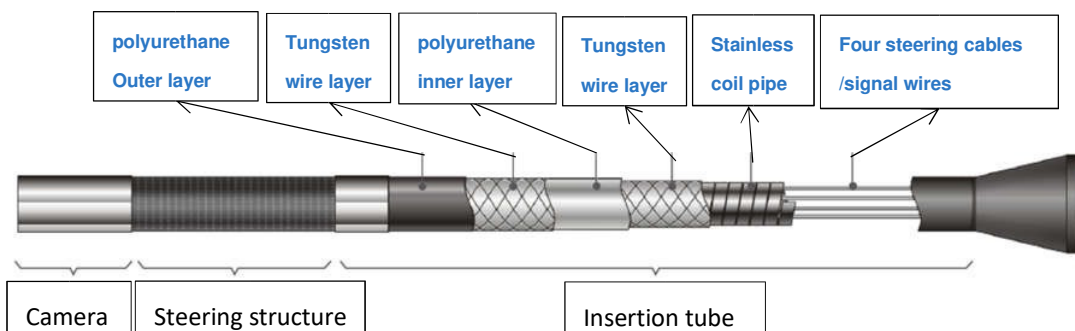
3. Add soft rubber buffer at the connection between the insertion tube and the main body



4. The whole unit only weighs 910G, light and portable.



5. The insertion tube is braided with four layers of tungsten wire, which has better wear resistance and corrosion resistance.



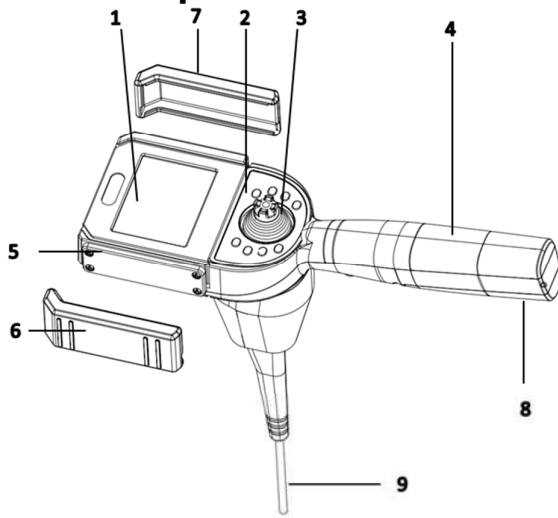
6. With a 5mm diameter camera, the target can be observed through narrow spaces such as door gaps and windows etc.



7. Camera IP67 waterproof and host IP65 waterproof



Product composition:




- ① 3.5 inch clear display screen
- ② Operating panel
- ③ Joystick
- ④ Host handle
- ⑤ Waterproof cover
- ⑥ Protective rubber(left)
- ⑦ Protective rubber(right)
- ⑧ Battery cover
- ⑨ Insertion tube

Application:

- To detect and dispose of bombs (EOD / IEDDD).
- To detect drugs, illegal aliens and other contrabands.
- To detect surveillance devices.
- For tactical surveillance.
- For rescue operation.

Model No.:

Series	Picture	Model No	Part No.	Description										
				Diameter [mm]	Insertion Tube Length	Camera			Optic		Light		Probe Bending	
						Location	Head Type	CMOS Sensor	Resoluti on	Depth of Field	Angle of View	Type		[mW]/[Lux]
R		R510FF	16152010	5	1	Front	PR	A	640X480	50mm-∞	70°	Fiber+LED	IR≥180mW White LED≥ 60,000lux	180±10°
		R515FF	16152015		1.5									170±10°
		R520FF	16152020		2									170±10°

Technical specifications:

Portable Dual-light Borescope		
System	Product size	338x115x155mm
	Product weight	910g
	Display screen	Highlight 3.5-inch active matrix color LCD
	Joystick control	Mechanical joystick rotate 360°
	Function	Take photo, record video, brightness adjustment, menu, photo zoom in/out, freeze, flip
	Audio	Integrated 3.5mm head microphone
	Storage	32G
	Data I/O port	SD card port, microphone port, TV-OUT video signal port, DC charging, Micro USB port
	Battery	18650 Li-ion battery, 3 pieces (replaceable)
	Standby time	≥5h
	Operating way	Hand-held, portable
	Brightness adjustment	6 levels brightness
Probe	Probe diameter	5 ± 0.1mm
	Working length	1 ~ 3 meter
	Insertion tube material	Tungsten-braided insertion tube (Explosion-proof grade)
	Probe articulation	360° mechanical control
	Bending angle	Lengths≤1m, bending angle 180±10° 2m≥length>1m, bending angle 170±10° 3m≥length>2m, bending angle 120±10°
	Effective pixels	450,000 pixels
	Depth of Field (mm)	50mm ~ +∞
	Angle of view	75°
	Night vision distance	IR light: Under totally dark environment, it can detect 20 meter, White light: Under totally dark environment, it can detect 15 meter.
Software	Operating system	Multi-task operating system
	User interface	Pull-down operating menu
	File management	Support photo/video play, delete and format
	Image control	Flip, zoom in/out, freeze
	Photo format	JPEG/JPG (record date and time)
	Video format	AVI (record date and time)
	Language	English/Chinese/Japanese
Operation environment	Mainbody system working environment	Temperature -20 ~ 50°
	Probe working environment	Temperature -20 ~ 70°
	Relative humidity	Highest 90%, no condensation
	Waterproof	Probe IP67/ Host IP65