

M-series

Mechanical 360° Industrial Endoscope



Introduction:

Yateks Mechanical 360° Industrial endoscope is a newly released product in combination with mechanical 360° articulation function & interchangeable tubes function.

M-series apply mechanical joystick control structure. M-series is portable with the whole weight of only **0.6KG**. With the interchangeable tubes function, one host can match different diameters & lengths & lens of the insertion tube to meet customers' various needs and greatly save costs.

Features:

- ◆ Mechanical rotation for 360° and bend for 160°---convenient, accurate and automatic reset.
- ◆ Interchangeable tubes, one host can match different diameters & lengths & lens of the insertion tube to meet customers' various needs and greatly save costs.
- ◆ Anti-friction and anti-erosion, the insertion tube is woven with 4-layer of tungsten alloy
- ◆ IP67 standard of the probe — corrosion proof, waterproof and dust-proof. Reliable examination can be carried out even under all kinds of bad conditions.
- ◆ Apply LED packing technology. Probe illuminance can reach 20,000 lux, 200 times than indoor fluorescent. The dynamic optimized amount of light can be applied to different working conditions.
- ◆ 6-level high and low brightness adjustment, can detect different materials under different environments.
- ◆ 5-times digital zoom in/out, ensure the clear image.
- ◆ Easy to operate, core functions including taking photos, storage and recording video images.
- ◆ USB, big capacity SD card and TV out interface, data can be shared and analyzed.
- ◆ Large capacity charging battery can ensure continuous work for over 3 hours,
- ◆ Hand-held ergonomics design, portable with the whole weight of 0.6KG



Removable Host and support base structure, easy to work on the desktop when the product will be fixedly placed.

Optional magnetic support base, , the host can be attached to the detected shell (metal material) in special circumstances.



Interchangeable tubes structure, easy to change the appropriate insertion tube when detecting different machines.

Application Field

This device is widely use for modern core industrial production and inspection for aviation, automobile, watercraft, electric and chemical.

Specifications

Module	Submodule	YTE-4M series	YTE-6M series
System	Dimension	315*103*173mm	
	Display screen	3.5" IPS industrial high definition screen with resolution ratio of 640*480	
	Control lever	Mechanical rocker with lens able to rotate in 360-degree	
	Probe reset	Automatic set	
	Functions	Photography, video, brightness control, locking, frame&flip and zoom in/ out	
	Audio	3.5mm integrated headset	
	Internal storage	16G	
	Data I/O port	SD card interface, TVOUT signal interface, headset interface, charge interface and USB interface	
	Battery	One 18650 Lithium batteries(replaceable)	
	Standby time	≥3 Hours	
	Operating Method	Handy portable	
	Brightness Control	6-degree brightness adjustment	
Front video probe	Probe dimension	4.0mm±0.1mm	6.0mm±0.1mm
	Total length	0-3m	
	luminance	≥6,000lux	≥20,000lux
	Angle of view	130°	100°
	Angle of bending	180±10° 160±10°	
	Effective pixels	450,000 pixels	
	Depth of field (mm)	7-80mm/50~+∞mm	
	Direction of rotation of lens	Mechanical rotation of any direction at 360°	
	Material of insert tube	Tungsten wire wear-resistant tube	

	Operation system	Real time multitasking operation system
Software	User interface	Pull down operation menu
	File management	Support image and video play, delete, format
	Image control	frame&flip, freeze and zoom in/ out
	Image format	JPEG/JPG (record the date and time)
	Video format	AVI (record the date and time)
	Language	English/Chinese/Korean/German/Japanese/ French/Spainsh
Operating environment	Operating temperature of main body	-10-50°C
	Operating temperature of probe	-20-50°C
	Relative humidity	Max 90%, No condensation
	IP rating	IP54 for main body
		IP67 for probe