yateks®
Your Vision, Our Future

M-ADV series

Industrial Videoscope



Introduction:

High definition, portable, flexible, versatile --- M-ADV Series, all-round upgrade! It adopts the latest image processing technology and high resolution 640*480 IPS screen to ensure high definition image, even minor defects can be inspected.

M-ADV Series(Type B) has options of 4mm&6mm forward view, 6mm dual camera. Ultra clear image on better screen can satisfy most applications and offers the user the best experience of doing visual inspection.





Technical Advantages:

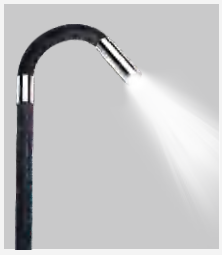




Image of advanced M-ADV 2.8mm now **Image of 2.8mm in early time**

(Image is very excellent if you have a physical comparison with any other 2.8mm products.)

Adopting brand-new advanced image processing technology, ultra clear image, minor defects are all under your view.image.



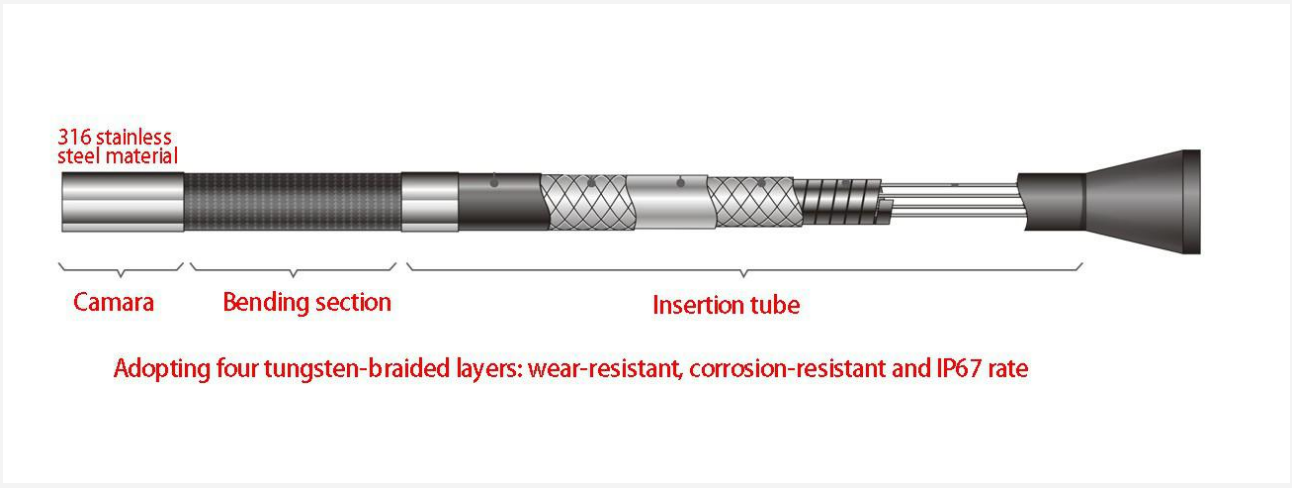
LED illumination way, brightness is up to 10000lux;



Upgraded to 640*480 high definition IPS screen, wider viewing angle, clearer display, more outstanding color rendition, showing still image and dynamic videos of the inspected objects in real time.



Unique feature of exposure value adjustment to offer the most suitable light for inspection.
While checking “light-reflecting pieces”(metal objects), it's very important to restrain the light
to a suitable level if the LED light is bright: balance of “enough light” and “not too much light”.



The camera module head adopts 316 stainless material, which has better corrosion-resistant feature than 304 stainless on the market. In the meantime, four tungsten-braided layers can help it to be more wear-resistant and IP67 rate.

Technical Advantages：

☆HDMI interface, more widely used for real time video output.





Other functions：

☆Camera options include 4mm&6.0mm forward view and 6.0mm dual camera, satisfying different application demands;
☆360° mechanical arbitrary articulation, 180° bending angle ——convenient, accurate and automatic locking of direction.
☆Image can flip, freeze, zoom for 4 times, for the convenience of analysis to minor defects.
☆Base unit can accept all digital lossless video data, which can gather and save complete camera data.
☆Brand new software with intuitive UI; software can be easily upgraded by SD card.





Specifications：

system	Dimension	315*103*173mm		
	Weight	0.75KG		
	Display screen	High brightness IPS, 3.5 inch LCD		
	Display resolution	640*480		
	Image mirror/Flip adjustment	180° mirror and flip		
	Zoom	4x digital zooming		
	Image effects	color, negative		
	Joystick control	Mechanical rocker 360° articulation		
	Automatic lock	Automatic locking		
	Functions	Photo, video, brightness adjustment, menu, picture zoom in/out, picture freeze, picture flip		
	Audio	Integrated 3.5mm headset		
	RAM	32G		
	I/O Port	SD card interface, headset interface, HDMI interface, charging, Micro USB interface		
	Battery	18650 battery*1(replaceable)		
	Standby time	≥4h		
	Operation method	Hand-held portable		
	Brightness control	6-level brightness adjustment		
Front video probe	Probe size	4mm(forward view)	6mm (forward view)	6mm（dual camera）
	Length	1-3 (m)	1-8 (m)	
	Illuminance	≥6000lux	≥20000lux	F: 5000 /S: 10000
	Insert tube material	Tungsten-braided		
	Lens steering	360° mechanical arbitrary direction		
	Bending angle	≤1 (m), 170±10°;		
		2 (m)≥length＞1 (m),160±10°		
		3 (m)≥length＞2 (m),120±10°		
		8(m)≥length＞3 (m),90±10°		
	Effective Pixels	450,000		
	DOF(mm)	For 4mm&6mm,7-80mm； For dual camera:F:10-100mm		
		/S: 5-50mm		
	AOV	For 4mm&6mm：120°； For dual camera F: 90°		
		/S: 80°		
	Pipe type	Tungsten-braided insertion tube		
Software	Operation system	Real time multitasking operation system		
	User interface	Drop-down operation menu		
	File management	Photo/video playback, deletion, formatting		
	Image control	Flip, zoom in/out, screen frame		
	Image format	JPEG/JPG (record date and time)		
	Video format	AVI (record date and time)		
	Language	English/Chinese/Japanese/German/Spanish/French/Korean		
Operating environment	Base unit working temperature	-10～50°		
	Probe working temperature	-20～50°		
	Relative humidity	Highest 90%, no condensation		
	Waterproof	Base unit IP54/video probe IP67		

Models for M-series:

Model No	Part No	Description								
		Diameter [mm]	Insertion Tube Length [m]	Camera		Optic		Light		Probe Bending
				Location	Resolution	Depth of Field	Angle of View	Type	[Lux]	
M210FN-WLS	11220010	2.2	1	Front	640X480	3-50mm	120°	LED	3,500	150±10°
M215FN-WLS	11220015		1.5							140±10°
M220FN-WLS	11220020		2							140±10°
M310FN-WLS	11230010	2.8	1	Front	640X480	3-50mm	120°	LED	8,000	150±10°
M315FN-WLS	11230015		1.5							140±10°
M320FN-WLS	11230020		2							140±10°
M410FM-WLL	11241010	3.9	1	Front	720X576	7-80mm	110°	LED	6,000	170±10°
M415FM-WLL	11241015		1.5							170±10°
M420FM-WLL	11241020		2							150±10°
M430FM-WLL	11241030		3							120±10°

Model No	Part No	Description								
		Diameter [mm]	Insertion Tube Length [m]	Camera		Optic		Light		Probe Bending
				Location	Resolution	Depth of Field	Angle of View	Type	[mW]	
M410FN-VLS	11246010	3.9	1	Front	640X480	3-50mm	120°	LED	UV: 35mW, 365nm	170±10°
M415FN-VLS	11246015		1.5							170±10°
M420FN-VLS	11246020		2							150±10°
M430FN-VLS	11246030		3							120±10°
M610FN-VLS	11266010	6	1	Front	640X480	3-50mm	120°	LED	UV: 60mW, 365nm	170±10°
M615FN-VLS	11266015		1.5							170±10°
M620FN-VLS	11266020		2							150±10°
M630FN-VLS	11266030		3							120±10°
M640FN-VLS	11266040		4							100±10°

Model No	Part No	Description								
		Diameter [mm]	Insertion Tube Length [m]	Camera		Optic		Light		Probe Bending
				Location	Resolution	Depth of Field	Angle of View	Type	[Lux]	
M610FM-WLL	11261010	6	1	Front	720X576	7-80mm	120°	LED	20,000	170±10°
M615FM-WLL	11261015		1.5							170±10°
M620FM-WLL	11261020		2							150±10°
M630FM-WLL	11261030		3							120±10°
M650FM-WLL	11261050		5							100±10°
M680FM-WLL	11261080		8							100±10°
M600FM-WLL	11261000		10							80±10°
M612FM-WLL	/		12							80±10°

Model No	Part No	Description								
		Diameter [mm]	Insertion Tube Length [m]	Camera		Optic		Light		Probe Bending
				Location	Resolution	Depth of Field	Angle of View	Type	[Lux]	
M610DM-WLL	11263010	6	1	Front& Side	720X576	F:7-80mm /S: 3-30mm	F: 100° /S: 90°	LED	F: 5000 /S: 10000	170±10°
M615DM-WLL	11263015		1.5							170±10°
M620DM-WLL	11263020		2							150±10°
M630DM-WLL	11263030		3							120±10°
M650DM-WLL	11263050		5							100±10°
M680DM-WLL	11263080		8							100±10°
M600DM-WLL	11263000		10							80±10°



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