

Yateks USA P Series Industrial Video Borescope



Introduction:

The Yateks P series industrial video borescope is composed of a flexible tube and a small - size body. Its CMOS image process system with 1,000,000 pixels provides ultra clarity and a perfect original display. A component design with 8 - inch ultra clear touch screen, 100,000 LUX brightness, an electronic magnetic rocker which can adjust omnidirectionally for 360°, and its lower price, 30% - 50% cheaper than similar specifications, which helps the P Series enjoy its superiority.

Technical Advantages:



1. Intelligent image processing system with megapixels module to show a clean image.



2. Built-in color setting and module automatically identify systems.



3. One base unit can match all kinds of probes.



4 Fiber and LED with 10 degree brightness adjustment.



5. 8 inch high resolution screen, image visible under sun light.



6. Side lens, dual lens and interchangeable lens are available.

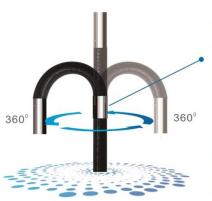


Locking automatically and fixed position memory

Holding on for 3 seconds to lock when probe bent; Open fixed position memory function after locking. Probe will bend around locking point when the rocker is operated again.

Electromagnetic rocker control structure

Probe bends arbitrarily for 360°, so flexible that a controller can easily control probe with one thumb.



Electronic magnetic rocker which can adjust omnidirectionally for 360°

Step by step rocker controlling system provides precise camera location.



original



short distance



high rendition



long distance

presetting four color setting modes



Variety Choices front LED, side LED, dual lens with both front and side LED, fiber+LED are all available to meet different demands.

Application field:

1. Aviation & Space Industry

It can be used to inspect regularly turbine, blades, engine, surface of welding and conductor pipes, combustion chamber in plane, and in development and manufacture of rocket.

2. Electrical Production and Construction Unit

It can be used to detect and monitor defects of important apparatus such as turbine, pipes.

3. Petro - Chemical and Pressure Container Industries

It can be used to inspect reserve tanks, heat exchangers and tank trucks in oil refinery, pipes in chemical plant and containers, steel cylinders and pipes in special inspection unit and pressure container plant.

4. Railway, Ship, Construction Engineering and Research Unit

Railway/Ship: It can be used to inspect electrical locomotive, air - conditioner, turbine, heater, gas - engine and flames of boiler.

Construction Engineering: It can be used to inspect erosion and fouling of pipes, rust of concrete iron, break of support shaft and bridge connection part; to observe caves inside tunnel and construction model; to diagnose erosion and blockage of running water pipe.

Research Unit: It can be used in observation, research, trial, archaeological work and etc.







Specifications:

	Category	Description				
	Dimension/Weight	246*321*123mm/2.3KG				
	Display screen	8" IPS industrial HD touch LCD screen with resolution 1024*768(ratio 4:3)				
	Control lever	Electric rocker with lens able to rotate in 360-degree,automatic set, direction fine tuning adjustable				
System	Functions	Photography, video, brightness control, locking an fine tuning				
- ,	Storage	32G high speed SD card (UP TO 128G)				
	I/O port	SD card, VGA port (1024*768) ,charge and mini USB				
	Battery/Standby time	Four 18650 Lithium batteries(replaceable)				
	Brightness control	5 degrees each for high and low brightness adjustment,10 degrees in total				
	Combining form	Monitor + probe Separable group				

	Compatibility	Support different diameter probes				
	Operation system	Real time multitasking operation system				
	User interface	Touch screen operation menu				
	File management	Support image and video play, delete, format memo				
	Image control	Zoom in/out(1.0X-1.5X,5 steps),playback, picture freeze-frame, image reversal, mirror image				
Software	Image format/Video format	JPEG,JPG/AVI(record date and time)				
Software	Language	English/Chinese/Korean/German/Russian/Japanese				
	Color settings	4 modes for different applications				
	White balance	Automatic/manual white balance				
	Exposure mode	Automatic/manual/shutter/aperture exposure				
	Upgrade	Upgrade by SD card service pack				
	Monitor working temperature	-10∼50°				
Operating	video probe working temperature	-20~70°				
environment	Relative humidity	Highest 90%,no condensation				
	Waterproof	Monitor IP54/video probe IP67				

Models for P-series

Diameter Tube Protection Protection							Description					
P310FN	Mardal	- ·		Camera					Light		5.1	
Page	iviodei			Location	Head Type		Resolution			Туре	[Lux]	
Description		2.8		Front	YA	D	600*600	3-25mm	80°	LED	4,000	
Mode Diameter Tube Length Location Head Type CMOS Resolution Digital of Type Lux Problem	P320FN		2									110±10°
Model Diameter Tube Early Description Descript							Description					
P419SM	Model	Diameter			Can					Lię	ght	Probe
P430SM		[mm]		Location	Head Type		Resolution			Туре	[Lux]	Ţ.
P430SM 3.9 2 Side SC C 1290*720 S-80mm 90* LED 10,000 150-10* 120-10*												
Model Diameter Tube Location Head Type CMOS Sensor Sensor CMOS Sensor CM		3.9		Side	SC	С	1280*720	5-80mm	90°	LED	10,000	
Model Diameter Camera												
Model Diameter (mm)	P4303IVI		3				Description			ļ		120±10°
Diameter Tube Imm			inseriion		Can	nera	Description	Or	ntic	Lie	nht	
P410FM	Model											
P410FM		[mm]	Length	Location	Head Type		Resolution			Туре	[Lux]	Bending
P415FM	DATOEM		1		PG	Α		7 - 80mm		LED	6,000	170±10°
P420FM	P410FM		1		YC	С		5-80mm		Fiber + LED	100,000	170±10°
P420FM	DATEEN		1.5		PG	Α		7 - 80mm		LED	6,000	170±10°
P420FM	P415FM		1.5		YC	С	1	5-80mm	1	Fiber + LED	100,000	170±10°
P430FM	DAGGENA	0.0	2		PG	Α	4004*700	7 - 80mm	4400	LED	6,000	150±10°
P430FM	P4ZUFM	3.9		Front	YC		1024^/68	5-80mm	110*	Fiber + LED	100,000	150±10°
P450FM	Dices	İ	3		PG	Α		7 - 80mm		LED	6,000	120±10°
Model Diameter Model	P430FM		3		YC	С		5- 80mm		Fiber + LED	100,000	120±10°
Model Diameter Tube Length Fiber Length Len	DAFOEM		5		PG	Α		7 - 80mm		LED	6,000	110±10°
Diameter	P450FM				YC	С		5-80mm		Fiber + LED		
PetiofFN					J	Description	1	1			1	
P610FN	Model	Diameter		Camera			Optic		Light		Drobo	
P610FN	Woder			Location	Head Type		Resolution		-	Туре	[Lux]	
P615FN	P610FN		1									170±10°
P620FN P630FN P630FN P630FN P630FN P630FN P630FM P660FM P660DM P610DM P610DM P610DM P610DM P610DM P610DM P610DM P610DM P630DM P		_	1.5	<u> </u>								
P630FN		6		Front	QB	Α	1024*768	5 - 25mm	80°	LED	24,000	
Model Diameter Insertion Tube Length	P630FN		3									120±10°
Model Diameter Imm Diameter Imm Diameter Imm Diameter Imm Diamete				Description							1	
P610FM	Model			Camera			Optic		Light			
P615FM	Wiodel		Tuba		Call						JIIL	Drobo
P615FM				Location		CMOS	Resolution		Angle of	Туре		
P620FM	P610EM		Length	Location	Head Type	CMOS Sensor	Resolution	Field	Angle of		[Lux]	Bending
P620FM	P610FM		Length	Location	Head Type QB	CMOS Sensor A	Resolution	Field 7 - 80mm	Angle of	LED	[Lux] 24,000	Bending 170±10°
P630FM			Length 1 1	Location	Head Type QB YE	CMOS Sensor A C	Resolution	Field 7 - 80mm 8-150mm	Angle of	LED Fiber + LED	[Lux] 24,000 100,000	Bending 170±10° 170±10°
P630FM			Length 1 1 1 1.5	Location	Head Type QB YE QB	CMOS Sensor A C A	Resolution	Field 7 - 80mm 8-150mm 7 - 80mm	Angle of	LED Fiber + LED LED	[Lux] 24,000 100,000 24,000	Bending 170±10° 170±10° 170±10°
P630FM	P615FM		Length 1 1 1 1.5 1.5 2	Location	Head Type QB YE QB YE QB QB QB	CMOS Sensor A C A	Resolution	Field 7 - 80mm 8-150mm 7 - 80mm 8-150mm	Angle of	LED Fiber + LED LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10°
P650FM	P615FM	[mm]	Length 1 1 1 1.5 1.5 2		Head Type QB YE QB YE QB QB QB	CMOS Sensor A C A C		Field 7 - 80mm 8-150mm 7 - 80mm 8-150mm 7 - 80mm	Angle of View	LED Fiber + LED LED Fiber + LED LED	[Lux] 24,000 100,000 24,000 100,000 24,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10°
P680FM S	P615FM P620FM	[mm]	Length 1 1 1 1.5 1.5 2 2		Head Type QB YE QB YE QB YE YE PE QB YE QB YE	CMOS Sensor A C A C A C		Field 7 - 80mm 8-150mm 7 - 80mm 8-150mm 7 - 80mm 8-150mm	Angle of View	LED Fiber + LED LED Fiber + LED LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10°
P680FM S	P615FM P620FM	[mm]	Length 1 1 1.5 1.5 2 2 3		Head Type QB YE QB YE QB YE QB YE QB QB YE QB	CMOS Sensor A C A C A C		Field 7 - 80mm 8-150mm 7 - 80mm 8-150mm 7 - 80mm 8-150mm 7 - 80mm	Angle of View	LED Fiber + LED LED Fiber + LED LED Fiber + LED LED Fiber + LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10°
Node Diameter Tube Length P615DM P620DM P630DM P650DM P65	P615FM P620FM P630FM	[mm]	Length 1 1 1.5 1.5 2 2 3 3 5		Head Type QB YE QB YE QB YE QB YE QB YE QB YE QB QB QB	CMOS Sensor A C A C A C A		Field 7 - 80mm 8-150mm 7 - 80mm	Angle of View	LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 150±10° 120±10° 110±10°
Model Diameter [mm] Diameter [mm] Location Head Type CMOS Sensor Resolution Field Type Clux Depth of Field Type Clux Depth	P615FM P620FM P630FM	[mm]	Length 1 1 1.5 1.5 2 2 3 3 5 5		Head Type QB YE YE QB	CMOS Sensor A C A C A C A C A C		Field 7 - 80mm 8-150mm 8-150mm 8-150mm 8-150mm	Angle of View	LED Fiber + LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 150±10° 120±10° 110±10° 110±10°
Model Diameter Tube Location Head Type CMOS Sensor Resolution Depth of Field Angle of View Type Lux Probe Bending	P615FM P620FM P630FM P650FM	[mm]	Length [75] 1 1 1 1.5 1.5 2 2 2 3 3 5 5 5 8		Head Type QB YE QB QB YE QB	CMOS Sensor A C A C A C A C A C		Field 7 - 80mm 8-150mm 7 - 80mm	Angle of View	LED Fiber + LED LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 24,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 120±10° 110±10° 110±10° 110±10°
Model Diameter Tube Length Location Head Type CMOS Sensor Sensor Pfole Pfole Sensor Pfole Pfol	P615FM P620FM P630FM P650FM	[mm]	Length [75] 1 1 1 1.5 1.5 2 2 2 3 3 5 5 5 8		Head Type QB YE QB QB YE QB	CMOS Sensor A C A C A C A C A C A	1024*768	Field 7 - 80mm 8-150mm 7 - 80mm	Angle of View	LED Fiber + LED LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 24,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 120±10° 110±10° 110±10° 100±10°
P610DM P615DM P620DM P630DM P650DM P	P615FM P620FM P630FM P650FM	[mm]	Length [50] 1 1 1 1.5 1.5 2 2 3 3 5 5 8 8		Head Type QB YE CMOS Sensor A C A C A C A C A C A C	1024*768	Field 7 - 80mm 8-150mm 8-150mm 8-150mm	Angle of View	LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 120±10° 110±10° 110±10° 100±10°	
P615DM P620DM P630DM P650DM 1.5 2 3 5 Front&Side 5 PD A/A 720*576/72 0*576 F7- 80mm/S3- 30mm F100°/S90° 80mm/S3- 30mm Front&Side LED F15,000/S1 150±10° 120±10° 110±10°	P615FM P620FM P630FM P650FM P680FM	[mm] 6	Length [m1] 1 1.5 1.5 2 2 3 3 5 8 8		Head Type QB YE CMOS Sensor A C A C A C A C A C A C	1024*768	Field 7 - 80mm 8-150mm	Angle of View	LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 150±10° 120±10° 110±10° 100±10° 100±10°	
P620DM P630DM P650DM 2 3 5 Front&Side PD A/A 720*576/72 0*576 F7- 80mm/S3- 30mm F100°/S90° Front&Side LED F15,000/S1 0,000 150±10° 120±10° 110±10°	P615FM P620FM P630FM P650FM P680FM	[mm]	Length [75] 1 1 1 1 1.5 1.5 2 2 2 3 3 5 5 5 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1	Front	Head Type QB YE Can	CMOS Sensor A C A C A C A C A C A C	1024*768 Description	Field 7 - 80mm 8-150mm 0 - 80mm 8-150mm 7 - 80mm 8-150mm	Angle of View 80° Angle of Angle of	LED Fiber + LED LED LED Fiber + LED LED Fiber + LED LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 110±10° 110±10° 110±10° 100±10° Probe
P620DM 6 2 Front&Side PD A/A /20°5/76//2 0°576 80mm/S3-30mm F100°/S90° F100°/S90° F100°/S90° F100°/S90° LED 100°/S90° 110±10°	P615FM P620FM P630FM P650FM P680FM Model	[mm]	Length [m] 1 1 1.5 1.5 2 2 3 3 5 5 8 8 8 INSERTION Tube Length	Front	Head Type QB YE Can	CMOS Sensor A C A C A C A C A C A C	1024*768 Description	Field 7 - 80mm 8-150mm 0 - 80mm 8-150mm 7 - 80mm 8-150mm	Angle of View 80° Angle of Angle of	LED Fiber + LED LED LED Fiber + LED LED Fiber + LED LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 110±10° 100±10° Probe Bending
P630DM 3 0°576 30mm LED 0,000 120±10° P650DM 5 110±10° 110±10°	P615FM P620FM P630FM P650FM Model P610DM	[mm]	Length	Front	Head Type QB YE Can	CMOS Sensor A C A C A C A C A C A C	1024*768 Description	Field 7 - 80mm 8-150mm Opport Depth of Field	Angle of View 80° Angle of Angle of	LED Fiber + LED LED LED Fiber + LED LED Fiber + LED LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 150±10° 150±10° 120±10° 110±10° 110±10° 100±10° Probe Bending
P650DM 5 110±10°	P615FM P620FM P630FM P650FM Model P610DM P615DM	[mm] 6 Diameter [mm]	Length	Front	Head Type QB YE AB Head Type	CMOS Sensor A C A C A C A C A C A C C A C C A C C A C C A C C A C C C A C	Description	Field 7 - 80mm 8-150mm Opporth of Field	Angle of View 80° Angle of View	LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 150±10° 150±10° 120±10° 110±10° 110±10° 100±10° Probe Bending 170±10° 170±10°
P680DM 8 100±10°	P615FM P620FM P630FM P650FM Model P610DM P615DM P620DM	[mm] 6 Diameter [mm]	Length	Front	Head Type QB YE AB Head Type	CMOS Sensor A C A C A C A C A C A C C A C C A C C A C C A C C A C C C A C	Description Resolution 720*576/72	Field 7 - 80mm 8-150mm	Angle of View 80° Angle of View	LED Fiber + LED LED Tiber + LED LED Fiber + LED Fiber + LED Fiber + LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 120±10° 110±10° 100±10° 100±10° Probe Bending 170±10° 170±10° 170±10° 170±10° 170±10°
·	P615FM P620FM P630FM P650FM Model P610DM P615DM P620DM P630DM	[mm] 6 Diameter [mm]	Length [55] 1 1 1 1.5 1.5 2 2 3 3 5 5 8 8 INSERTION Tube Length [65] 1 1.5 2 3 3 3 5 5 3 3 5 5 3 3 5 5 3 8 8	Front	Head Type QB YE AB Head Type	CMOS Sensor A C A C A C A C A C A C C A C C A C C A C C A C C A C C C A C	Description Resolution 720*576/72	Field 7 - 80mm 8-150mm	Angle of View 80° Angle of View	LED Fiber + LED LED Tiber + LED LED Fiber + LED Fiber + LED Fiber + LED Fiber + LED	[Lux] 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000 24,000 100,000	Bending 170±10° 170±10° 170±10° 170±10° 150±10° 120±10° 120±10° 110±10° 100±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10° 170±10°