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N-series(Digital) Portable Industrial Endoscope



Introduction:

N-series portable industrial endoscope is based on normal N series, adopting the lad digital platform and camera modules, which makes it available for color settings, white balance and picture annotations. As a portable instrument, it's flexible and diverse with the upgraded 5-inch high fidelity screen and digital camera. Visual field can be detected completely. Six patents are adopted to the body and different camera options such as forward and dual cameras for the customers to meet different working applications.

Features:

1. Intelligent image processing system to show very clean image.



2. Color settings to meet different applications.



3. Step by step rocker controlling system makes precise camera location.



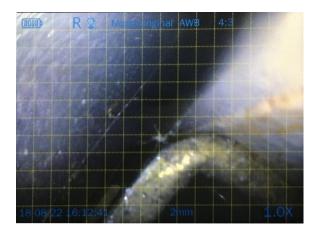
4. Probe bend for 180° with flexible 360° articulation



5. Customized settings, more user friendly.



6. Three types of reference rulers of 1mm, 2mm and 4mm to do basic comparison measurement.



7. Crack detection (the left is conventional effect, the right is the reverse color display effect).





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	156 x 356 x 80mm/1.5KG						
	Display screen	5" IPS LCD (640 x 480)						
	Control lever	Electric rocker with probe able to articulate in 360°, software navigation key/step-drive, automatic set						
	/oriented control							
System	Functions	Photography, video, brightness control, locking and fine tuning						
	Storage	32G high speed Micro SD card (TF card)						
	I/O port	TF card port, HDMI video port, DC charging port, Micro USB port, earphone port, update and expand port.						
	Battery/Standby time	Li-on Battery 18650x2 / 2.5 hours N-D						
	Brightness control	5 degrees each for high and low brightness adjustment,						
	Dignitiess control	10 degrees in total						
	Operation system	Real time multitasking operation system						
	File management	File & Folder creation, naming, deleting,						
Software	r lie management	save to SD card or USB Drive						
	Image control	Zoom in/out(1.0X-1.5X,5 steps), playback, image freeze,						
		image reversal, mirror image						
	Image format/Video format	JPEG, JPG/AVI (record date and time)						
	Language	English/Chinese/Korean/German/Russian/Japanese						
	Color settings	6 modes for different applications						

	White balance	Automatic/manual white balance					
	Exposure mode	Automatic/manual/shutter/aperture exposure					
	Reference measure	Grid reference					
	Upgrade	upgrade by Micro SD card service pack					
Operating environment	Monitor working temperature	-10~50°					
	video probe working temperature	-20~70°					
	Relative humidity	Highest 90%, no condensation					
	Waterproof	Monitor IP54/video probe IP67					

Models for N-series

		Description											
Model	Part No	Insertion Diameter Tube System			Camera				Optic		Light		Probe
		[mm]	Length [m]	Platform	Location	Head Type	CMOS Sensor	Resolution	Depth of Field	Angle of View	Туре	[Lux]	Bending
N410FM	12141010	3.9	1	Non-digital	Front	PG	A	720*576	7-80mm	110°	LED	6000	170±10°
	12241010		1	Digital									170±10°
N415FM	12141015		1.5	Non-digital									170±10°
	12241015		1.5	Digital									170±10°
	12141020		2	Non-digital									150±10°
N420FM -	12241020		2	Digital									150±10°
N430FM	12141030		3	Non-digital									120±10°
	12241030		3	Digital									120±10°
N450FM	12141050		5	Non-digital									100±10°
	12241050		5	Digital									100±10°
		Description											
Model	Part No	Diameter	Insertion Tube	System		Camera			Optic		Lig	pht	Probe
		[mm]	Length [m]	Platform	Location	Head Type	CMOS Sensor	Resolution	Depth of Field	Angle of View	Туре	[Lux]	Bending
N610FM	12161010		1	Non-digital		QB			7-80mm	80°	LED	20,000 -	170±10°
	12261010		1	Digital	Front		A	720*576					170±10°
N615FM	12161015		1.5	Non-digital									170±10°
	12261015	1.5 2 6 3 5 5 8	1.5	Digital									170±10°
N620FM	12161020		2	Non-digital									150±10°
	12261020		2	Digital									150±10°
NESOEM	12161030		3	Non-digital									120±10°
N630FM	12261030		3	Digital									130±10°
N650FM	12161050		5	Non-digital									110±10°
	12261050		5	Digital									120±10°
N680FM	12161080		8	Non-digital									100±10°
	12261080		8	Digital									100±10°
							De	scription					
Model	Part No	Diameter [mm]	Insertion Tube System Length Platform [m]	Camera			Optic		Light		Probe		
					Location	Head Type	CMOS Sensor	Resolution	Depth of Field	Angle of View	Туре	[Lux]	Bending
N610DM	12263010		1		Front&Si de	PD	A/A	720*576/7 20*576	F7-80mm/S3- 30mm	F100°		F15,00 0/S10,0 00	170±10°
N615DM	1263015	6	1.5										170±10°
N620DM	12263020		2										150±10°
N630DM	12263030		3	Digital									130±10°
N650DM	12263050		5										120±10°
N680DM	12263080		8										100±10°



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