

Digital N Industrial Endoscope





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Introduction:

Digital N is based on normal N series, adopted latest digital platform and high brightness sensitive modules, which make color settings, white balance and picture annotations available.





4、 Flexible Control electromagnetic rocker control structure, probe bends



5 、 Customized settings, more user friendly.



6、1mm、2mm、4mm three types rules to do basic measurement.

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8. Crack detection (the left is a 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*356*80mm/1.5KG					
	Display screen	5" IPS LCD (640 x 480)					
	Control lever/oriented control	Electric rocker with lens able to rotate in 360-degree,software navigation key/step-drive, fast and slow regulation, automatic set					
	Functions	Photography, video, brightness control, locking and fine tuning					
	Storage	32G high speed Micro SD card					
	I/O port	Debug Port					
	Battery/Standby time	Li on Battery 18650 x2 / 2.5 hours N-D					
	Brightness control	5 degrees each for high and low brightness adjustment,10 degrees in total					
	Operation system	Real time multitasking operation system					
	File management	File & Folder creation, naming, deleting Storing to SD card o USB ThumbDrive					
	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)					
	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					
	Referencemeasure/upgrade	Grid reference/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					

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Models for N-series

Model	Part No	Description												
			Insertion			C	amera		Optic		Light		1000	
		Part No	Рапло	Diameter [mm]	Tube Length [m]	System Platform	Location	ocation Head CMOS Type Sensor Resolution	Depth of Field	Angle of View	Туре	[Lux]	Probe Bending	
N410FM	12141010	4	1	Non-digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	170±10°	
	12241010	4	1	Digital	Front	PG	A	720X576	<mark>7 - 80mm</mark>	120°	LED	6,000	170±10°	
N415FM	12141015	4	1.5	Non-digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	170±10°	
	12241015	4	1.5	Digital	Front	PG	A	720X576	<mark>7 - 80mm</mark>	120°	LED	6,000	170±10°	
N420FM	12141020	4	2	Non-digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	150±10°	
	12241020	4	2	Digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	150±10°	
	12141030	4	3	Non-digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	120±10°	
N430FM	12241030	4	3	Digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	120±10°	
N450FM	12141050	4	5	Non-digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	100±10°	
	12241050	4	5	Digital	Front	PG	A	720X576	7 - 80mm	120°	LED	6,000	100±10°	

Model	Part No	Description												
		Dismatur	Insertion	Cartan		Ca	amera		Optic		Light		Decks	
		Diameter [mm]	Tube Length [m]	System Platform	Location	Head Type	CMOS Sensor	Resolution	Depth of Field	Angle of View	Туре	[Lux]	Probe Bending	
N610FM	12161010	6	1	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	170±10°	
	12261010	6	1	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	170±10°	
N615FM	12161015	6	1.5	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	170±10°	
	12261015	6	1.5	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	170±10°	
N620FM	12161020	6	2	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	150±10°	
	12261020	6	2	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	150±10°	
NCOOTA	12161030	6	3	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	120±10°	
N630FM	12261030	6	3	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	20,000	130±10°	
NACATH	12161050	6	5	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	18,000	110±10°	
N650FM	12261050	6	5	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	18,000	120±10°	
NCOOTH	12161080	6	8	Non-digital	Front	PB	A	720X576	7 - 80mm	120°	LED	18,000	100±10°	
N680FM	12261080	6	8	Digital	Front	PB	A	720X576	7 - 80mm	120°	LED	18,000	100±10°	

Model	Part No	Description												
			Insertion		Camera				Optic		Light		720111	
		Part NO	Diameter Tube Length System	Location	Head Type	CMOS Sensor	Resolution	Depth of Field	Angle of View	Type	[Lux]	Probe Bending		
N610 DM	12263010	6	1	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7- <mark>80mm/</mark> S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	<mark>170±10°</mark>	
N615 DM	1263015	6	1.5	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7-80mm/ S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	170±10°	
N620 DM	12263020	6	2	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7- <mark>80mm/</mark> S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	<mark>150±10°</mark>	
N630 DM	12263030	6	3	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7-80mm/ S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	130±10°	
N650 DM	12263050	6	5	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7-80mm/ S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	<mark>120±1</mark> 0°	
N680 DM	12263080	6	8	Digital	Front& Side	PD	AVA	720X576/ 720X576	F:7-80mm/ S3-30mm	F:100° /S:90°	Front&Side LED	F:5,000/ S10,000	100±10°	