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ООО "Энерджи Девелопмент"

Multifunctional industrial videoendoscope VRScope X5-E

VRScope X5-E

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Features

- Proprietary electrically controlled probe replacement technology
- Portable design in a single housing
- High-definition IPS touch screen display
- Super-bright LED backlight
- Ultra-long battery life
- Strong and reliable, resistant to wear and tear
- High temperature alarm indicator
- Powerful features, simple interface

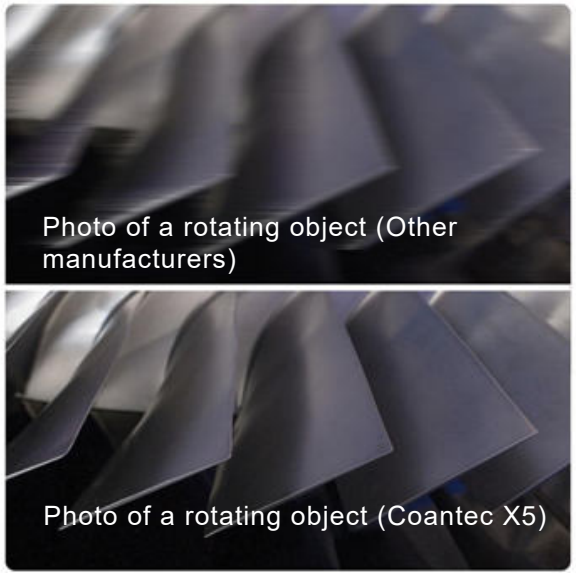
Brief description

The VRScope X5-E is a high-precision industrial videoendoscope for high-quality visual inspection of the internal surfaces of equipment or its components.
The videoendoscope features imaging technology that produces vibrant colors, sharper and more detailed images. The new modular design allows you to quickly replace the probe without any problems.
A unique dual power system allows you to increase the battery life up to 8 hours. Thanks to its powerful software features, VRScope X5-E can be used in various control tasks and significantly improve the inspection efficiency.
This device can be used in aviation, astronautics, automotive, railway engineering, shipbuilding, energy, petrochemical production, electric power engineering, for special control, and in other industries.

Advantages

High quality photos and videos

The built-in high-sensitivity image generator with an image processing algorithm allows making sharper photos in high quality. The image is clear, the details are better visible, which makes it easier to inspect various small defects in the internal parts of the device inspected.



Portable design in a single housing with electric control system

The ergonomic portable design of the VRScope X5-E allows you to comfortably hold the main part of the videoendoscope in your hand. The electric joystick allows you to bend the probe 360° in all directions without delay, thereby giving a quick and accurate response during operation.

High-definition IPS touch screen display

The brand new high-definition touchscreen IPS display is connected to the main part via a flat-contact socket. The robust and reliable display in the VRScope X5-E has a standard 6" screen size. (VRScope X5 Pro-M has a 7" touchscreen display)

Electrically controlled probe replacement technology

VRScope X5-E is equipped with probes of various lengths, diameters and backlight. You can choose the probe characteristics you need. The probe is connected to the main unit by means of a clamp with a friction fit, which makes it easy to disassemble and assemble the videoendoscope.

Focal length lenses

The unique design of the distal end with a double threaded connection, allows using interchangeable lens for inspection without any fear. The VRScope X5-E models use short-, medium-, and long-focus cameras to inspect objects at varying distances from the probe.

Dual power supply, long operating time

Dual power is used, as well as a high-capacity lithium-polymer battery that can be used for more than 8-10 hours to get a long battery life. Fast battery charging technology charges the device in an hour and allows you to work all day long.

More space for data storage

By default, the main device has 16 GB of built-in data storage that can be expanded to 32/64/128 GB. The video endoscope is equipped with two USB sockets for connecting an external USB device that can be used to access data and more conveniently and quickly update software.

Powerful features, simple interface

The new and simple interface allows you to record video, simultaneously take photos, rotate the image, adjust the speed of movement of the distal end, change the brightness to 9 levels, work with files (take notes, share, re-measure on VRScope X5-E), and compile inspection reports in a few seconds. The interface is easy and user friendly!

Main screen

Real-time image comparison screen

Image editing screen

Inspection reporting screen

- High reliability and impact resistance
- Shockproof silicone

Robust and reliable housing

The videoendoscope body is made of ABS material resistant to abrasion and scratches, and the display screen is protected by silicone, which increases its reliability and durability.
The VRScope X5-E comes in a high-quality case for easy storage and transportation of the videoendoscope. The case corresponds to the size of hand luggage of most airlines.

Technical specifications

BASIC FEATURES

Model		VRScope X5 - 3920E	VRScope X5 - 3930E	VRScope X5 - 6020E	VRScope X5 - 6030E	VRScope X5 – 6040E	VRScope X5 – 6050E	VRScope X5 – 8050E	VRScope X5 – 6070E	VRScope X5 – 8070E	VRScope X5 – 60100E	VRScope X5 – 80100E
Operating part (probe)	Probe diameter	ø 3,9 mm		ø 6,0 mm				ø 8,0 mm	ø 6,0 mm	ø 8,0 mm	ø 6,0 mm	ø 8,0 mm
	Probe length	2,0 m	3,0 m	2,0 m	3,0 m	4,0 m	5,0 m	5,0 m	7,0 m	7,0 m	10,0 m	10,0 m
	Outer braid	High-strength tungsten braid										
	Probe flexibility	Uniform rigidity										
	Interchangeability	Possible for all probe models										
	Temperature sensor	2-stage indicator for high temperature alarm										
Bendable part	Bending angle up/ down/ right/ left	up 150°	up 130°	up 160°	up 130°	up 130°	up 110°	up 110°	up 90°	up 90°	up 90°	up 90°
	Bending mechanism	“360° electronic control of the distal bending with a joystick / Precise bending control mode via a virtual joystick on the touch screen”										
Approximate system weight (including battery)		≤2,1 kg										
Lighting		Super-bright LED backlight										
Direct view optical system (D)	Field of view	120°										
	Depth of focus	5 to 50 mm / 5 to 100 mm/ 25 mm to ∞ (choose when ordering)		5 to 30 mm / 8 to 80 mm /20 mm to ∞ (choose when ordering)								
	Lens type	built-in optical										
Optical side vision system (S)	Field of view	70°										
	Depth of focus	5 to 50 mm/ 5 to 100 mm/ 25 мм to ∞ (choose when ordering)		5 to 30 mm / 8 to 80 mm / 20 mm to ∞ (like direct view)								
	Lens type	built-in optical										
	Depth of focus	unavailable		5 to 30 mm / 8 to 80 mm / 20 mm to ∞ (like direct view)								
	Lens type	interchangeable optical										

Dimensions (WxDxH)		326 x 185 x 118 mm (without protruding parts)
Transport case dimensions		551 x 351 x 240 mm The hand luggage size of most airlines.
Display		Industrial 6-inch HDLCD touchscreen with IPS matrix and wide angle of view
Display resolution		H1280 x V720 (пикселей)
LCD brightness levels		Adjustable brightness mode for 0-100 levels
Power supply	**AC network**	220± 10% V, 50 Hz with AC adapter
	Battery (non-removable)	7.4 V, 6,000 mAh. Battery life: >4 hours.
	Battery	7.4 V, 5,000 mAh. Battery life: >4 hours.
Video output standard		HDMI (standard)
Headset (microphone input/ audio output)		3.5mm audio output socket
SOFTWARE FEATURES		
Image functions		5x digital zoom and full screen display mode / image centering, 9-step brightness adjustment
Dynamic noise suppression		In real time to improve image quality
Image magnification		5x magnification during examination. Supports enlarging the image while viewing photos via the "pinch" gesture of the touch display
Functional modes		Reference color mode, black and white mode, negative mode, high color density modes
Rotate images		0°, 90°, 180°, 270° rotation
Annotations		Lines, arrows, rectangles, circles, text
Bluetooth connection		In standard design
WiFi module		In standard design
Menu languages		Chinese, Russian, English
Data entry languages		Chinese, Russian, English Input languages can be downloaded when WiFi is activated

RECORDING CONTROL FEATURES			
Information media	**RAM**	2 GB, expandable to 4 GB (optional)	
	Data storage memory	16 GB	
	Optional	Two external USB flash drives	
Watermark settings		Time/ date	
Static image recording	**Resolution**	H1280 x V720 (pixels), 1,000,000 pixels	
	Recording format	Compression format: JPEG	
	Image recording	Image capturing supported while video recording	
Video recording	**Resolution**	H1280 x V720 (pixels), 1,000,000 pixels	
	Recording format	MPEG 4	
	Frame rate	30 fps /60 fps (for probes up to 3.0 m in length)	30 fps
OPERATING CONDITIONS			
Operating temperature	**Operating part (probe)**	for 0 4.0 mm: -20 °C to 60 °C for 0 6.0 mm and 8.0 mm: -20 °C to 80 °C	
	Main unit	-20°C to 55°C	
Storage temperature		-20°C to 60 °C	
Relative humidity		From 15 to 90%	
Resistance to liquid aggressive media of the operating part (probe)		Contact with engine oil, light petroleum products and 5% brine is allowed together with a direct-view optical system	
Dust and water resistance	**Operating part (probe)**	IP67	
	Main unit	IP55	