JOINWE

Industrial Videoscopes

High-definition videoscope for a new visual standard, intelligent and accurate identification of detects



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JOINWE

Company Introduction

Championing Industrial Equipment Health,
Pioneering the Future of Intelligent Monitoring



High-tech enterprise integrating R&D, production, sale, and technical services of industrial videoscopes.

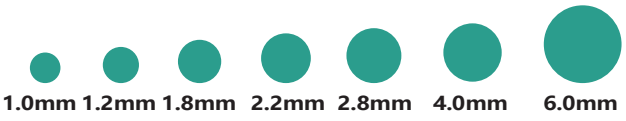
Shenzhen Joinwe Smart Co.,Ltd. is committed to improving the precision and efficiency of industrial inspection, providing comprehensive and efficient solutions for customers in different industries.

Our team covers a wide range of areas including technology development, marketing and sales, and customer service, and has more than 10 years of experience in the industry. Our team continuously promotes technological innovation and optimizes product performance to meet the growing needs of our customers.

JOINWE is committed to becoming a global leading provider of industrial inspection solutions. The company will continue through scientific and technological progress and customer-oriented, and constantly expand the application of products to promote the development of industrial testing technology.







Aerospace

More reliable and accurate aircraft inspections through advanced data processing and measurements.

Energy Industry

For inspection and maintenance of equipment such as turbines, piping, condenser tubes, pressure vessels, etc.

Machinery

For quality control and defect inspection of hydraulic and mechanical parts, pipe fittings and castings.

Petrochemical

For inspection of internal defects in storage tanks, ball tankers, pressure vessels, gas cylinders, etc.

Automobile

Suitable for inspection during automobile manufacturing and maintenance

JW-F Series Electric Industrial Videoscope



Product Introduction

Craftsmanship quality, using high-hardness, dual joystick design. Ergonomic insertion tube removal for quick and easy replacement.

JW-F series of intelligent industrial videoscope, having 5.5 inch high-brightness OLED industrial touch screen, intelligent platform equipped with RK3588 high performance processor, the system that has a variety of built-in custom color modes, dual stick design, aim to provide high quality images and convenient operation experience.

Function of the button



hort Press: Switch function of follow lock, guided stepping, fixed-point freedom
Long Press: Cancel function switching

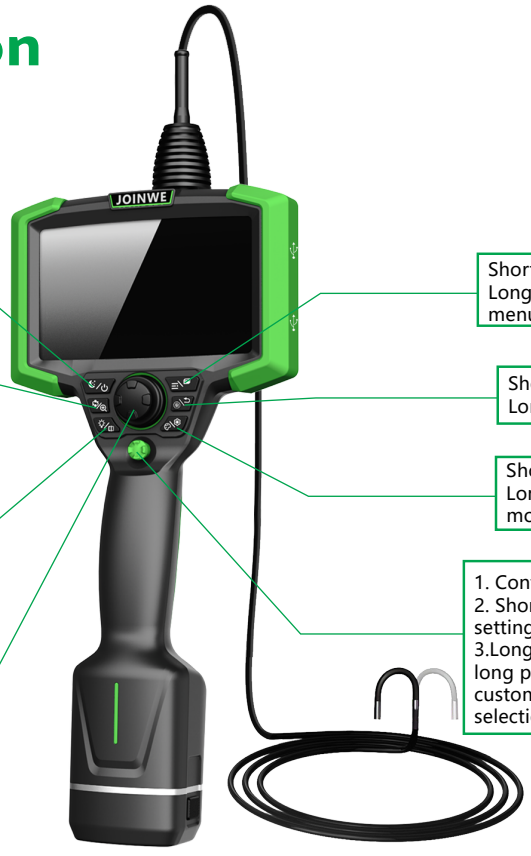
Short Press: Take photos
Long Press: Record videos

Long Press: Turn on/off

Short Press: Switch menu and status bar rocker focus
Long Press: Zoom in/out

Short Press: Camera brightness adjustment
Long Press: Image comparison(photos and live image)

1. Control the camera's direction
2. Short Press: Switch fast and slow mode
Return to normal mode



Short Press: Image browsing
Long Press: Hide/show the menu bar

Short Press: Return
Long Press: Freeze/release

Short Press: Setting
Long Press: Switch color mode

1. Control interface UI guiding
2. Short Press: Function customize settings
3.Long Press: In the main interface, long press the joystick button to customize the menu function selection

Features

High Resolution 5.5" OLED Display
The high-resolution contrast-rich display can be adjusted to the brightness of the environment.

Rugged Housing for Harsh Environments
User-friendly design, industrial grade housing, durable with impact and heat resistance.

Flexible Articulation-electric Joystick
With follow lock, guided stepping, fixed-point freedom functions, optimize the efficiency and stability of operation.



Replaceable Insertion Tube
It is possible to replace the insertion tubes with different specifications in one click, fulfillment of a wider range of uses.

High Compatibility
Versatile interfaces for device compatibility, data transfer, and external display.

Precision Camera Module
High resolution CMOS sensor, HD image display.

Bright and Easy to Inspect
High-power LED light source and high-performance fiber optic light source.

Craftsmanship Quality



Using high-hardness, scratch-resistant, and high temperaure resistant sapphire glass to encapsulate lenses.

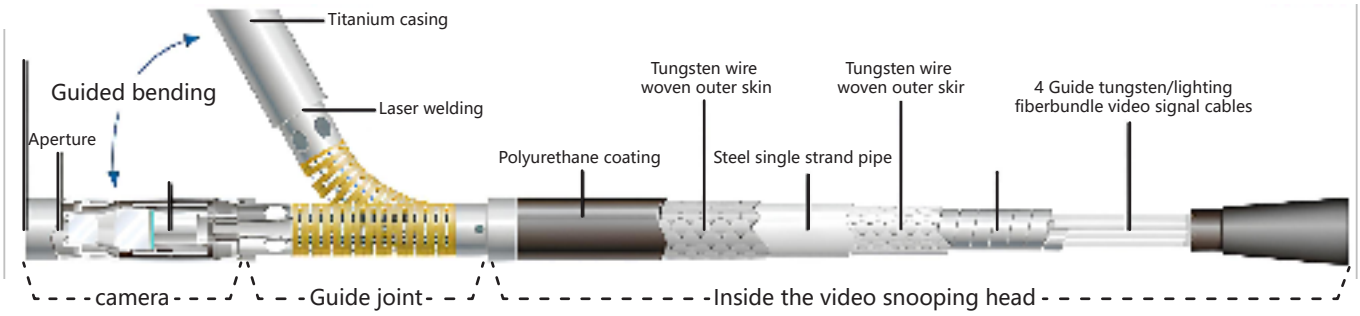


5.5-inch OLED touch screen, using RK3588 high performance processor, the speed of image and video processing algorithms is faster.



Dual joystick design for easy one-handed operation.

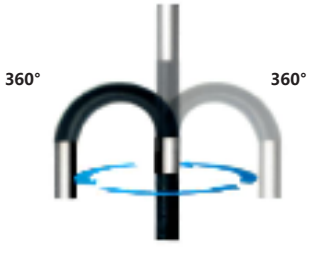
Replaceable Insertion Tube



Double titanium probe braid for added crush resistance



1.0mmFront view
1.2mmFront view
1.8mmFront view
2.2mmFront view
2.8mmFront view
4.0mmFront view
4.0mm Front view
6.0mm Front view/Side view/Dual view/Replaceable





Ergonomic insert tube removal for quick and easy replacement of 1.0 mm, 1.2 mm, 1.8 mm, 2.2 mm, 2.8 mm, 4.0 mm, 6.0 mm, etc. with different diameters/lengths/depths of field, ensuring greater flexibility and applicability in the field.

Diameter	Working length							
	0.5cm	1cm	1.5cm	2cm	3cm	5cm	8cm	10cm
0.96cm	●	●						
1.2cm	●	●						
1.8cm		●	●					
2.2cm		●	●					
2.8cm		●	●	●				
4.0cm		●	●	●	●	●		
6.0cm		●	●	●	●	●	●	●

Tip Articulation	
Insertion Tube Length	Articulation
2m - 5m	Up/Down 150°-170°min, Left / Right 150°-170°min
6m - 10m	Up/Down 100°-130°min, Left / Right 100°-130°min
Note: Typical articulation exceeds minimum specifications.	

Technical specifications

Host System

Display	5.5'' OLED display, 10 level brightness adjustment
Main joystick	Electric joystick 360° guide with mode of fast and slow, follow lock, guided stepping, fixed-point freedom, overload protection
Processor	RK3588 high performance processor, A76 core frequency 2.4GHz, A55 core 1.8GHz
Storage	Host machine 128G, external 64G USB flash disk

Insertion Tube System

Probe diameter	1mm/1.2mm/1.8mm/2.2mm/2.8mm/4.0mm/6.0mm
Illumination	Front LED or Rear-mounted fiber light ⩾100,000Lux
View direction	Front view(FN, FM, FF)/side view/dual view
Effective pixel	160,000/520000/1million/2millions pixel
Probe ingress protection	IP67, can withstand 10 meters of water pressure, weak acid and alkali, gasoline, diesel, hydraulic oil, commonly used lubricants

Software System

Picture-in-Picture	Switching between main screen image and picture-in-picture window
Side by side	Simultaneous display of front view and side view on the same screen
Report generation	PDF
Black box	Open the real-time recording setting will automatically record the detection video, the recording length can be set
Recording tags	Tags can be added during video recording
Comparative measurements	Measuring the length of an object using a reference length

Optical Parameters

Diameter	Optical Parameters											
	FN		FM		FF		SN		SM		DM	
	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]
0.96 mm	3-50	120										
1.2 mm	3-50	120										
1.8mm	3-50	120					3-50	120				
2.2mm	3-50	120										
2.8mm	3-50	120					3-50	120				
4.0mm	5-50	100	8-150	100					8-100	90		
6.0mm			8-150	100	50-∞	90			8-150	100	F: 8-150 S: 5-50	100

Product Comparison			
			
Series	**JW-F**	**JW-G**	**JW-T**
Joystick control	**Electric joystick**	**Mechanical joystick**	**Electric joystick**
Display	**5.5 inches, 1920*1080**	**5.5 inches, 1920*1080**	**7 inches, 1920*1200**
Detachable Probe	√	√	√
3D Measurement Function	**Option**	×	√
Follow Lock	√	×	√
Guided Stepping	√	×	√
Fixed-point freedom	√	×	√