

M40 Series Industrial Videoscope



Strong Environmental Adaptability
Reliable Operation System
Flexible Configuration

PRODUCT INTRODUCTION

M40 Series Industrial Videoscope

The M40 Series is an upgraded product based on the C40. It is a high-definition, modular handheld industrial borescope. Building on its portable design, it features a larger industrial touchscreen and a more versatile modular probe and lens system, enhancing inspection adaptability and operational efficiency. It is suitable for visual inspection and diagnosis of complex internal structures.



① Power Button / Freeze

② Return Button

③ Brightness Adjustment Button

④ OK / Menu Button

⑤ Up / Photo-Video Switch

⑥ Down Button

⑦ Joystick

⑧ Photo / Video Button

⑨ Headphone Jack

⑩ TF Card Slot

⑪ Type-C Port

⑫ HDMI Port

⑬ Probe Locking Ring

⑭ Battery Release Button



TECHNICAL FEATURE

M40 Series Industrial Videoscope

Touch Interaction System /01

- **5-inch touchscreen (800×480 resolution)**

Provides clear image display for direct on-site observation and evaluation.

- **Supports real-time 4× zoom and image rotation**

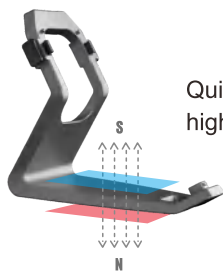
Allows instant magnification of details and multi-angle viewing from 0° to 270°, meeting various inspection perspective requirements.

- **Photo capture, video recording, and real-time annotation**

Supports storage in JPEG / BMP / MP4 formats. Time stamps and annotations can be added to images and videos for documentation and report generation.

- **More than ten system languages available**

Meets the needs of multi-region and multilingual operating environments.



Strong Environmental /02 Adaptability and Reliable Operation

- **IP68 waterproof probe**

Suitable for harsh conditions such as moisture, oil contamination, and underwater environments.

- **Quick-release high-strength magnetic base**

Provides stable support and enables fast adjustment of inspection angles.

- **High-strength aluminum alloy quick-release heat-dissipation probe connector**

Heat dissipation efficiency increased by three times, ensuring stable performance during extended operation.

- **Main unit weight: 0.89kg (including base and battery)**

Lightweight and portable, suitable for prolonged handheld use.

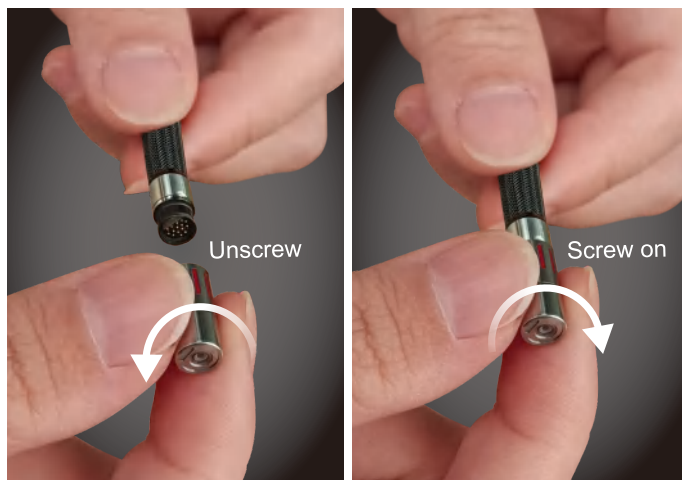
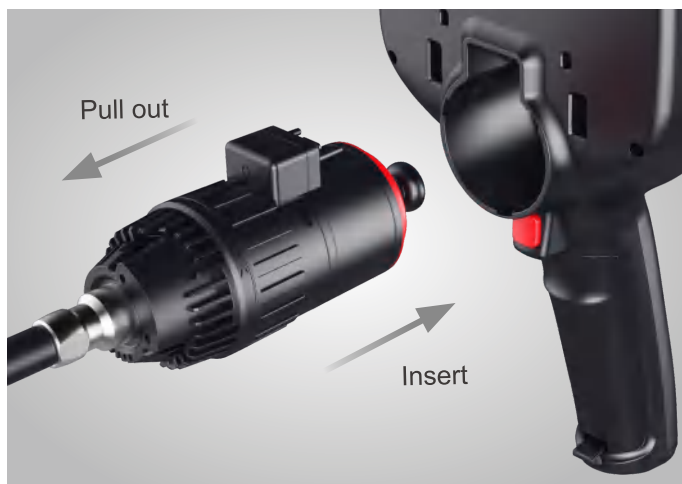
- **Built-in replaceable 5000mAh lithium battery**

Approximately 4 hours of battery life, meeting continuous on-site inspection demands.



Modular Inspection /03 System and Flexible Configuration

- Supports quick replacement of probes with various diameters. Adapts to different bore sizes and depth inspection requirements.
- Multiple interchangeable lenses available, including direct-view, side-view, and dual focus options. Flexible selection according to inspection targets, enabling multifunctional coverage with a single device.
- 360° omnidirectional probe articulation with mechanical control. Allows flexible maneuvering within pipes and cavities.



The unit for the depth of field of all lenses is (mm)



φ0.95mm L: 1-2m DOF: 3-50mm FOV: 120°

φ1.2mm L: 1-2m DOF: 5-50mm FOV: 120°

φ1.6mm L: 1-3m DOF: 5-50mm FOV: 120°

φ1.8mm L: 1-3m DOF: 5-50mm FOV: 120°

φ2.0mm L: 1-3m DOF: 5-50mm FOV: 120°

φ2.8mm L: 1-3m DOF: 5-50mm FOV: 120°

φ3.0mm L: 1-1.5m DOF: 3-50mm FOV: 130°

φ3.9mm L: 1-3m DOF: 3-100mm FOV: 120°

φ4.8mm L: 1-3m DOF: 10-100mm FOV: 100°

φ6.0mm L: 1-10m DOF: 8-80/10-100/15-130/15-∞(mm) FOV: 100°/105°/120°

For detailed specifications and additional requirements, please consult our sales representatives.

OPERATIONAL SCENARIOS

M40 Series Industrial Videoscope

Widely Applied :

Aerospace:

Internal defect detection for engine blades, combustion chambers, turbine structures, fuel nozzles, etc.

Automotive Manufacturing:

Inspection of engine block, valves, and internal cleanliness and assembly status of transmission.

Nergy and Power:

Internal inspection of boiler pipelines, heat exchangers, transformer oil tanks, and wind turbine gearboxes.

Etrochemical:

Pipeline and tank inspection at refineries, reactor and heat exchanger inspection at chemical plants, maintenance of oil and gas transmission pipelines.

Rail Transit:

Evaluation of internal conditions of bogie hollow shafts, brake system piping, and air conditioning ducts.

Construction Engineering:

Detection of internal cavities, clogged drainage pipes, and dust accumulation in ventilation systems for concrete structures.

Special Equipment:

Regular inspection and safety assessment of pressure vessels, boilers, and pressure pipelines.

Military Industry and Research:

Internal inspection of weapon components, material structure observation, and teaching experimental demonstrations.

SPECIFICATION PARAMETERS

M40 Series Industrial Videoscope

Host							
Display Dimension	5-inch HD touchscreen						
Display Resolution	800 × 480						
Image Zoom	Supports real-time 4× zoom; up to 5× zoom during image playback						
LED Brightness Levels	Adjustable from 0 to 9 levels						
Auxiliary Measurement	Function Crosshair reference line						
Photo/Video	Supports photo capture and video recording						
Document Format	Images stored in JPEG / BMP format; videos in MP4 format						
Image Rotation	0° / 90° / 180° / 270° rotation						
Image Preview	List-view preview; supports full-screen viewing, file deletion, time watermarking, etc.						
Screen Backlight Brightness		700nit high-brightness sunlight screen					
Output Port	Mini HDMI						
Menu Language	Simplified Chinese, Traditional Chinese, English, Japanese, Korean, French, German,						
	Portuguese, Spanish, Russian, Italian, Dutch, etc, more than ten languages						
Host Dimension	295 mm × 140 mm × 80 mm						
Package Dimension	425mm × 345mm × 188mm						
Host Weight	0.89 kg (including base and battery)						

Tube		High-strength aluminum alloy quick-release heat-dissipation replaceable structure					
*Probe Diameter(±0.1mm)	Φ0.95mm	Φ1.2/1.6mm	Φ1.8/2.0mm	Φ2.8mm	Φ3.9mm	Φ4.8mm	Φ6.0mm
*Camera Pixels	160,000	160,000	160,000	160,000	1,000,000	1,000,000	1,000,000 2,000,000
View Direction	Forward	Forward	Forward	Forward/Side	Forward/Side	Forward/Side	Forward/Side
*Depth of Field(mm)	3-50	5-50	5-50	5-50	5-100	8-80	8-80 / 15-∞
*Field of View	120°	120°	120°	120° / 120°	120° / 70°	120° / 70°	120° / 70°
*Tube Length	1-1.5m	1-2m	1-3m	1-5m	1-3m	1-3m	1-10m
Lighting Mode	Fiber+backend LED	Front LED	Front LED	Front LED / Fiber+backend LED			
Joystick Control	Non-articulation	Non-articulation /Two-way	360° all-way articulation				
*Probe Bending Angle	/	/	Tube length≤3m,150°;Tube length 3m to 5m,120°;Tube length≥7m,90°				
Tube Material	Alloy spring tube	Tungsten braided wear-resistant tube					
Probe Material	Hard alloy protective shell						
Joystick Control	Mechanical control,The rocker comes with a Dnison tight adjustment						
Compatibility	Interchangeable Tube						
Protective Device	Buffer for connecting host and wear-resistant tube						
Probe Waterproof Level	/	/	/	IP68			

Lens System		Interchangeable	
Lens Model	Direct View		Side View
Depth of Field (mm)	2-20 / 10-130 / 50-∞		2-20 / 7-120 / 50-∞
Field of View (°)	120 / 120 / 80		120 / 120 / 80

Power			
Power Supply	Rechargeable lithium battery (with reverse battery protection.)		

Power	
Battery	3.7V,5000mAh
System Operating Time	4 hours

Operation Environment	
System Operating Temperature	-10°C-50°C
Probe Operating Temperature	-20°C-85°C
Storage Temperature	-20°C-60°C
Relative Humidity	15%-90%

Others	
Base	Quick-release high-strength magnetic base

Configurations	
Standard Configurations	M40 videoscope ×1, instrument case ×1, magnetic base ×1, rechargeable lithium battery ×1,
	charger ×1, card reader ×1, 8G TF card ×1, anti-fall hand strap ×1, user manual ×1,usage
	precautions ×1
★ For specific parameters (such as illumination, depth of field, pixel, field of view, working length, bending angle, etc.) and other requirements, please contact relevant personnel for confirmation.	

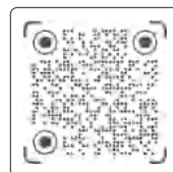
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Website



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