

User Manual

Borescope Series

Digital Camera, New Fluid Dispensing

Camera Diameter options



9mm
dual-lens



4.5mm
single len



3.7mm
single len



Product Appearance Introduction

1. Power on/off
2. Down
3. Up
4. Setting
5. OK
6. Preview/ Playback
7. Video Recording
8. Photo Taking
9. LED
10. Zoom
11. Image Freeze
12. Flashlighting
- 13 tripod mount
- 14 Battery cover screw
- 15 Probe
- 16 status light

17. .Charging light
18. Micro SD Card slot
19. TV out
20. USB
- 21.RESET
22. Protective Cover



Product Appearance Introduction

23. Bracket

24. Screw

25. front/lateral Scene Switch

26. LED

(Notice: 25&26 only applies to dual-lens borescope)



Operation Function

- **1. Inserting Micro SD card**
 - Uncover the rubber cover at right side and insert the Micro SD card.
 - Note: Please choose branded C4&above Micro SD card and format the card before using.
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- **2.Charging**
 - Use power adapter charging or USB cable connecting to computer or power bank.
 - Please do not over charge the battery.
- **3.Switch borescope on/off**
 - Press power button for 2 seconds to turn it on/off
- **4.How to take photo and record video**
 - Taking photo: Press photo button to take photo, photos will be saved in DICM files of Micro SD card.
 - Video recording: Press video button to take and finish video recording, videos will be saved in DICM files of Micro SD card.
- **5. Setting**
 - Please press setting button to set Language / Time and Date/ Auto power off
- **6. Assistant Functional buttons**
 - LED button: Press LED button to adjust camera lighting manually. (off/ Level 1/ Level2/ Level3)
 - Zoom Button: Press zoom button to zoom. (X2/ X3/ X4)
 - Flashlight button: Press flashlight to assist the inspection environment. (off/ Level 1/ Level2/ Level3);
- **7. Press the button front/lateral Scene Switch to change the viewing scene**

Troubleshooting

- **No image on the LCD screen after power on**
- Please connect power adapter with device to activate the battery.

- **No image but words on the LCD screen after power on**
- Please remove the probe then insert again.

- **Fail to take photo/video and setting**
- Please insert a Micro SD card

- **The screen keep displaying: "Please format the card"**
- Please change another high quality branded Micro SD card

- **Device Shutdown**
- Please RESET the device and power on again.

Application

- This video borescope is a useful tool for professionals who need to inspect inaccessible areas for defects without harming them. The applications can be in the precision instrument inspect, automotive repair, plumbing, construction, restoration and HVAC/R etc.

Security Considerations

Important Safety Instruction

- This product is not suitable for medical care.
- Please keep the unit clean, try to avoid exposure or direct contact with water, oil and other corrosive corporation.
- Please handle gently, do not overbend the probe.
- Please charge with original power adapter and USB cable.
- Please contact with our distributor or qualified mannintenance personel for service ranther than disassemble it at your own discretion.

Battery:

- Do not over charge the battery to save battery life.
- Please take out the battery if the device will not be used in a long time.
- Please unscrewed the battery cover to replace a new one If the battery drained.
- Note: the battery should be 3.7V, 2000-2800mAH Li-battery, point head)

Environment

Operating temperature	Probe	In air: -10 to 70° C
		In water: 5 to 70° C
	Console	In air: -10 to 50° C
Relative humidity	All parts	15 to 90%
Liquid resistance	All parts	Operable when exposed to machine oil, light oil or 5% saline solution.
Ingress Protection	Probe	To water, oil & dust per IP67 standard
	Console	Operable in blowing rain conditions (Battery compartment must be closed)
		Not operable underwater.

Technical Specification

■ Monitor	
Display	3.5" TFT LCD Monitor
Photo	JPEG (640x480)
Video	AVI (640x480)
function	Image ZOOM\Rotation&Mirror\ freeze frame
language	Chinese,English,French,German,Spanish, Japanese, Russian
Storage	Micro SD Card (maximum up to 32GB)
USB	USB 2.0 USB disk
TV out	PAL
Power	Li-Ion Battery (2600mAh) Battery Life 4 hours

9.0mm (Dual-lens) Insertion Probe		
Diameter of Camera Head	9 mm	
Camera Resolution	300,000 pixel	
Field of Viewing angle	90°	
Camera Depth of Field	Front	10mm-100mm
	Side	3mm-100mm
Camera Lighting	Front	6 white LED
	Side	2 white LED
Probe Length	1meter (optional 3meter)	
Probe Material	semi-flexible	

4.5mm Insertion Probe	
Diameter of Camera Head	4.5mm
Camera Resolution	300,000 pixel
Field of Viewing angle	90°
Camera Depth of Field	10-100mm
Camera Lighting	6 white LED
Probe Length	1meter (optional 3M, 4M, 6M)
Probe Material	semi-flexible

3.7mm Insertion Probe	
Diameter of Camera Head	3.7mm
Camera Resolution	300,000 pixel
Field of Viewing angle	80°
Camera Depth of Field	10-100mm
Camera Lighting	6 white LED
Probe Length	1meter (optional 3M, 4M, 6M)
Probe Material	flexible

Standard Configuration

- ✓ Tool Case
- ✓ Monitor (Include protective cover)
- ✓ Stand
- ✓ USB cable
- ✓ TV out cable
- ✓ Manual
- ✓ 4G SD card

- 9.0 mm Probe 1m 3m other m
- 4.5 mm Probe 1m 3m other m
- 3.7 mm Probe 1m 3m other m