

Model: CR-OFM400 Handheld Video Microscope User Manual

Overview

The CR-OFM400 is a handheld video microscope for fiber optic connector inspection. It helps find dust, dirt, or scratches that can affect signal quality. With a 5-inch screen, up to 400X magnification, and photo/video recording, it makes fiber inspection easy, clear, and reliable.

Reliability and performance of a fiber optic link largely depends on the quality of interconnects. Contaminated connectors can cause the mating surfaces to separate leading to high insertion loss and back-reflection. Furthermore, some dirt particles can even scratch or dig into the glass causing permanent damage to the end-face of the connector. Therefore, inspection of fiber optic connectors should be performed whenever a connection is to be made.



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Safety Warnings:

- Never look directly into an optical fiber, as laser radiation can damage your eyes.
- Do not use the device near flammable gases or fumes.
- Do not attempt to repair the device yourself. Contact an authorized service center.

Features:

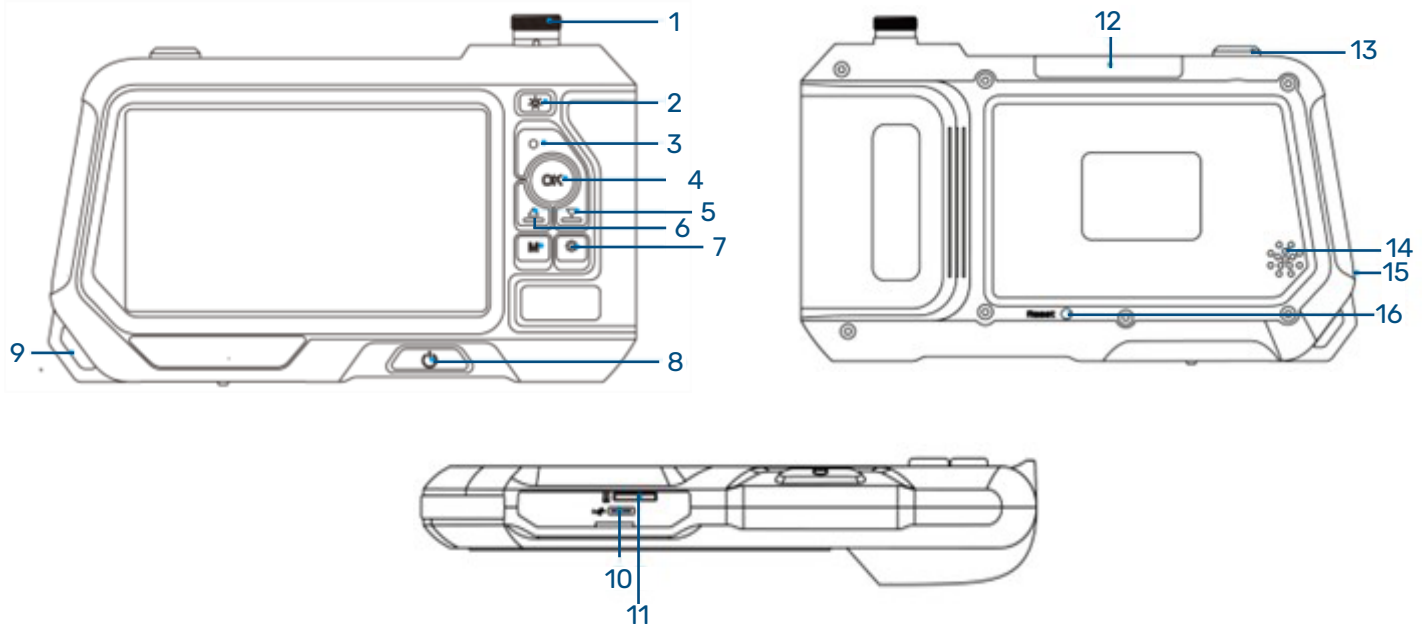
- Compatible with FC / SC / ST / E2000 / LC / MU / MPO connectors
- 5-inch TFT LCD display- Up to 200X / 400X magnification
- TF card storage up to 32GB- Photo and video recording with playback
- 180° image rollover
- Built-in flashlight function

Description

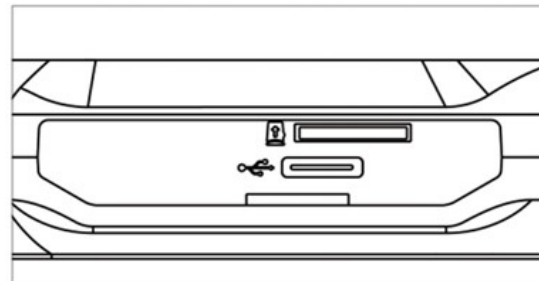
The device includes a main unit, inspection probe, and standard adaptors. Below is the layout of the main unit for reference

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1. Main Unit



1. Handle and probe interface
2. Handle internal light control (factory-locked)
3. Shooting key: take photos / start video / end video
4. Confirm key: confirm the selection / freeze frame screen
5. Select key up and down
6. Mode switch button: switch between the three functional modes of photo, video and playback
7. Set the key: Enter / exit the setting interface
8. Power button: long press power-on / shutdown
9. metal hanging ring
10. The Type-C charging interface
11. TF card slot
12. 12 Auxiliary lighting
13. Auxiliary lighting lamp switch
14. Loudspeaker
15. Mic pick-up hole
16. Reset button



The device is equipped with a TF memory card, which has been installed in the body card slot before delivery. It can be pressed in the card slot to pop up the storage card. Use the card reader to view or copy photos or videos taken by the inspection host.

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2. Probe



3. Standard Adaptor



2.5mm tip for PC male connectors



1.25mm tip for PC male connectors



2.5mm tip for PC male connectors



1.25mm tip for PC male connectors

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Installation

- 1. Probe Installation:** Insert probe and adaptor gently. Adjust focus knob for clarity.
- 2. Power On/Off:** Long press the power button to turn ON or OFF.
- 3. TF Card:** Insert TF card (Class 4 or higher, up to 32GB) before use
- 4. Taking Photos & Videos:** Press the photo/video button. Files are saved to TF card
- 5. Playback:** Use the Mode button to switch between Photo, Video, and Playback.
- 6. Settings:** Use the SET button to change language, time, auto power-off, or format card.
- 7. Lighting:** Use flashlight button for extra illumination.
- 8. Charging:** Connect with Type-C cable (5V/2A).



Specification:

Parameter	Details
Display	5" LCD
Video Resolution	1280 × 720 (AVI)
Photo Resolution	1920 × 1080 (JPEG)
Storage	TF card up to 32GB
Battery	Li-Ion 3500mAh, rechargeable (5V/2A)
Battery Life	> 2 hours continuous use
Power Supply	Replaceable battery or DC 5V adapter
Dimensions (Mainframe)	180 × 100 × 30 mm
Weight (Mainframe)	320 g (with battery & sleeve)
Dimensions (Probe)	150 × 40 × 45 mm
Weight (Probe)	120g
Magnification	200X / 400X
Detection Limit	0.5 μm
Menu Languages	English, Chinese, French, German, Spanish, Japanese, Russian
Operation Temp.	-20°C to 50°C
Storage Temp.	-30°C to 60°C

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Standard Accessories:

Details	Qty
Inspection Probe	1x
Mainframe	1x
AC power adapter/battery charger	1x
Rechargeable battery pack	1x
2.5mm tip for PC male connectors	1x
1.25mm tip for PC male connectors	1x
Tip for SC PC female connectors	1x
Tip for LC PC female connectors	1x
Tip Box	1x
User Manual	1x
Carrying Case	1x

Optional Accessories:

Details
Tip for ST PC female connectors
Tip for FC PC female connectors
Tip for MU PC female connectors
2.0mm tip for PC male connectors
Tip for 2.0mm PC female connectors
2.5mm tip for APC male connectors
1.25mm tip for APC male connectors
Tip for SC APC female connectors
Tip for FC APC female connectors
Tip for LC APC female connectors
Tip for MPO PC female connectors
Tip for MPO APC female connectors