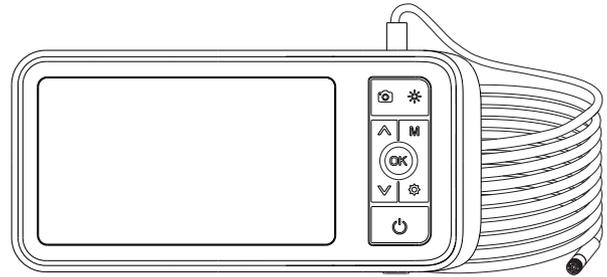


User Manual

Digital Inspection Endoscope



Product manual

Ms450 is a high performance industrial endoscope with a 4.5 inches high definition color IPS screen. It is ergonomically designed so that the main functional buttons can be controlled within one hand. The snapshot and recording functions are supported, photos and videos can be saved on TF memory card (Micro-SD card). This product is equipped with a LED-assisted illumination and small-diameter HD camera, and the camera uses a high-sensitivity chip, so that the product can be used in dark environments.

The camera probe is interchangeable, it can connect to different probes with different lengths, diameter, view angles and focal length for using in different inspection places.

Warning: This product is an industrial endoscope camera and is not intended for medical use or human examination.

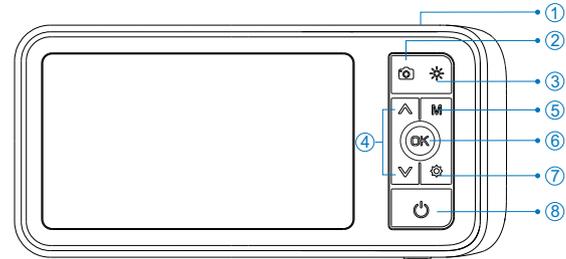
Safety and maintenance

- *Please do not violently hit the camera probe, and do not imprudently pull the cable.
- *When the product is used in the environment with sharp staff, please be careful to prevent the probe's waterproof protective layer from being scratched during usage.
- *The camera probe adopts materials which are not resistant to high temperature. When checking the vehicle engine, please ensure that temperature inside the engine drops to the normal temperature.
- *This product is not suitable for people with limited physical, sensory or mental capabilities to use it.
- *Please do not allow children to touch or operate this device.
- *If the device is damaged, do not disassemble it by yourself. Please contact the seller or the agent where you bought it to get repair service.

Battery description

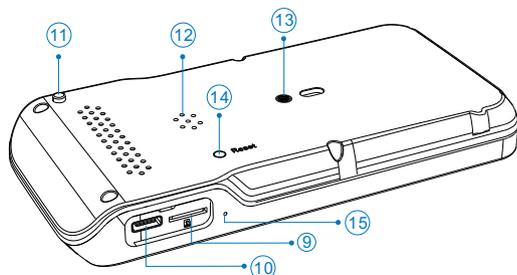
- *Please use 5V household charger that meets the safety regulations to charge this device.
- *This device can work while charging.
- *If you do not use the device for a long time, please ensure that it is charged at least once every 3 months to prevent irreparable damage caused by excessive battery discharge.

Functions



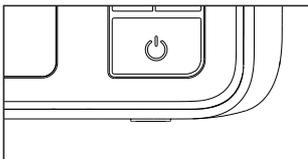
- ① Camera probe connector.
- ② Snap button: Photo taking/Start video recording/End video recording.
- ③ Light control button: To adjust the the LED's brightness of the camera.
- ④ Up and down selection button/rotate180°.
- ⑤ Mode switch button: switch between three function modes: Photo taking, video recording and playback.
- ⑥ Enter button: Confirm selection/freeze screen.
- ⑦ Settings button: enter/exit settings menu.
- ⑧ Power button: long press to turn on/off .

Functions

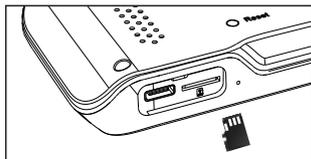


- ⑨ TF card slot
- ⑩ Charging port
- ⑪ Camera probe lock(Press this button to unlock and pull out the camera probe)
- ⑫ Speaker
- ⑬ Installation hole of Screen bracket
- ⑭ Reset button
- ⑮ Microphone

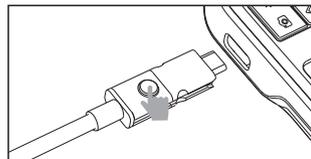
Instructions



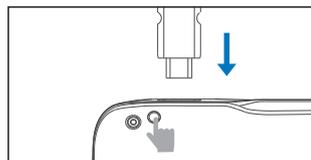
Long press the power button to turn on/off device.



The device is equipped with a TF memory card(inserted). Gently press to eject the card.



Notice: When connecting a dual lens camera probe, please press this button to switch the front and side lenses.



Press this button and pull out the TYPE-C plug of the probe from the monitor.

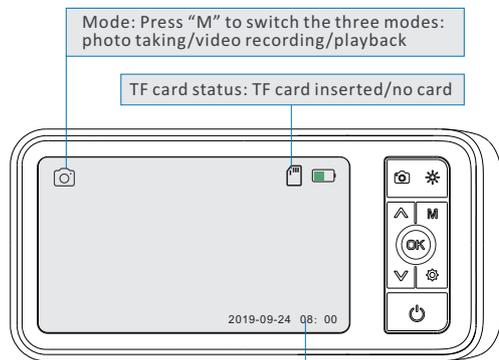
Note: Connect camera probe before turning on device. Restart device after replacing camera probe.

Insert TF card:

*please power off device first before insert TF card.

*please make sure the direction and the front and back sides is correct when insert the TF card.

*Do not use excessive force when inserting or removing the TF card to prevent damages of card slot structure.



Date and time: modify the date and time in Settings menu

Language settings

The default language is English, and the system supports English, Chinese, German, French, Spanish, Italian, Russian, and Japanese.

Setting path:

Press the  button twice to enter setting page.

Select second item (Language) on settings page.

Press up and down keys to select the language you need.

Press  to save your choice.

Photo taking/Video recording/Playback

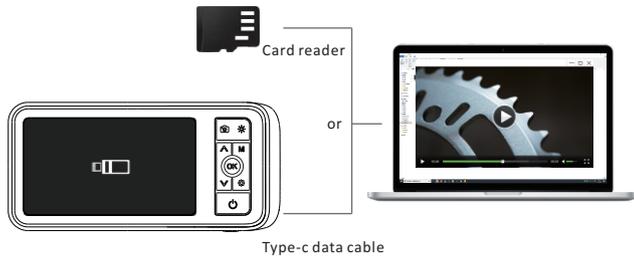


Press  to switch to the photo taking or video recording mode, and press  to take a photo or start recording.



Press  to switch to playback mode, press   to select photo or video to view, and press  to delete photo or video.

Copy photo and video files to computer



You can use a TF card reader to copy data directly or use a type-C cable to connect to a computer for copying.

 Please pull out probe camera first before using Type-C cable.

Specification parameters

Screen

Screen: 4.5" IPS HD Display

Screen resolution (Pixels) : 854x480

Support probe resolution (Pixels) : 100W

Snapshot resolution (Pixels) : 1920x1080,

Video Recording resolution (Pixels) : 1920x1080, 1280x720

Port: Type-C charging port, TF memory card slot

Camera

Diameter: 5.5mm or optional

Probe Length: optional

Resolution: 1.0 Megapixel HD

Viewing angle: 70°

Depth of Field: 30mm—100mm

Light Source: 6 adjustable high-intensity LEDs

Other

Operating Temperature: 32° F to 113° F (0° C to 45° C)

Power Source: 2500mAh Lithium Battery

Max battery life: 3~4 hours

Charging time: 3~4 hours

Packaging

Monitor, camera probe, Type-C charging cable, user manual, Screen Bracket

Accessories – pick up hock, magnet, mirror (3.9mm NO accessories, 8mm NO mirror)