

Product Manual



Please read the manual before using the equipment.

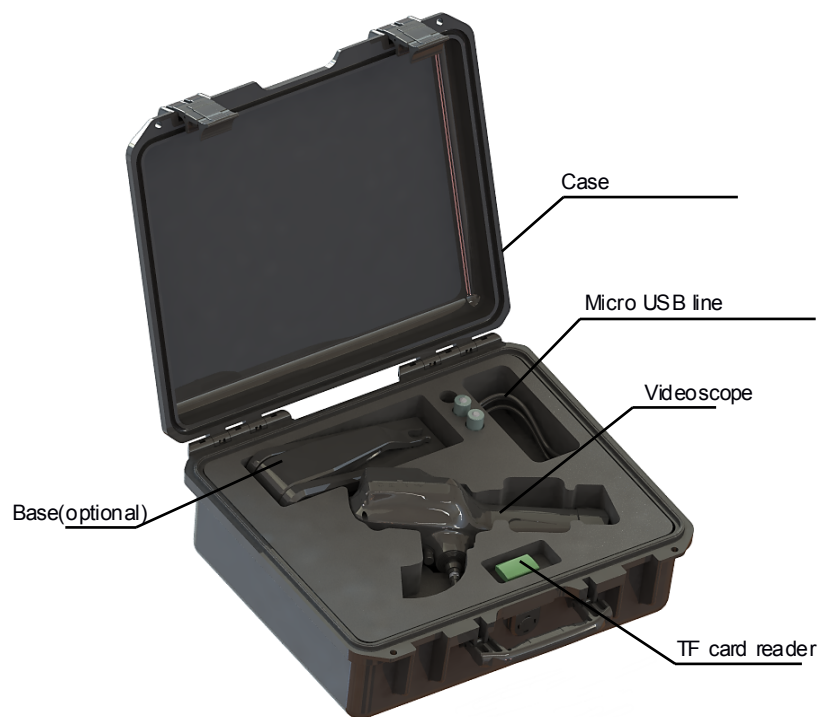
Declaration

Due to the continuous updating of product technology, rapid market changes, the editing time is limited. We do not guarantee that there is no error in this manual, so this manual is only for user's reference, does not provide any form of guarantee. For the manual amendment, we have no responsibility and obligation to inform any company or individuals.

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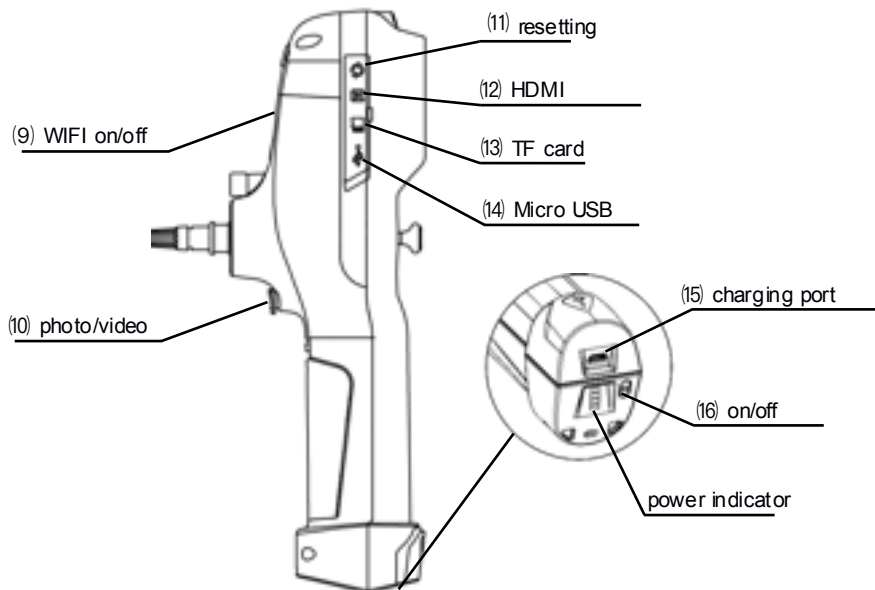
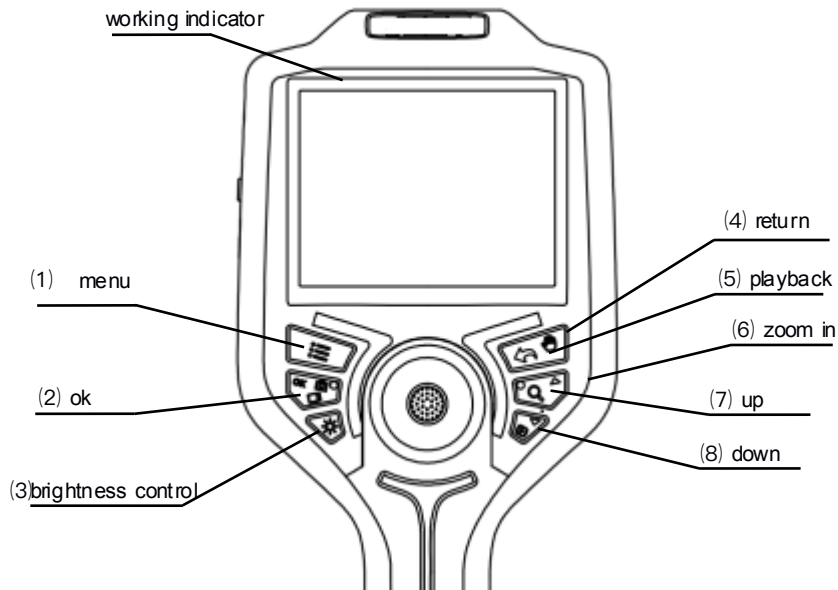
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Main Configuration



Name	Specs	Qty	Note
Case	432*386*163 mm ³	1	
Videoscope	277*106*92mm ³	1	
Base	215*84*36mm ³	1	Optional
TF card reader		1	
Rechargeable Battery	φ18mm×65mm	1	Optional for 2
Micro USB Line	1m	1	

Button and Port



Application

This product is only applied in the real-time detection and analysis for industrial equipment and automobile production and maintenance.

After-service

This product has not any spare parts which can be repair by users. Any disassemble, refit or maintenance is not allowed. If damage and losses caused by this, we do not assume any responsibility. The product maintenance is only afforded by the authorized dealers and distributors.

Warning

warning

- Prohibit the use of this instrument to observe the body or the animal's body;
- Do not use the product to inspect equipment in action;
- Do not use or store the product on explosive, strong electromagnetic field or with combustible gas, otherwise it may cause fire or explosion;
- Do not use the product to check objects with current carrying, so as to avoid the occurrence of electric shock;
- Do not watch the LED light source at the end of the lens straightly, avoiding the effect of strong light on the visual acuity;
- Never excessive bending, stretching, twisting, rolling cable, otherwise it may cause cable disconnect, a fire or electric shock accident;
- If there is abnormal in the angle adjustment operation, stop the current operation, and turn off. Then contact the supplier;
- Keep the insert tube away from any liquid, except water, salty water or oil;
- When finish using, please clean the front section of the instrument in time, to prevent corrosion.

1 Brief Introduction

1.1 Parameters

Probe Diameter	Φ6mm/Φ3.9mm/Φ2.8mm
Probe Length	15mm
Probe Material	titanium alloy
Camera Pixels	450,000
DOF	10mm-100mm (Optional: 20~120mm)
FOV	120° (Optional:80°)
Viewing Direction	0° front view
Illuminance	maximum: 30000lx
Tube Material	tungsten-braided
Tube Length	1.5m/2m/3m/4m/5m
Protecting Device of Durability	buffer protection device between the host and wear-resistant tube
Articulation	360° all-way
Bending Angle	≥150°
Display	highlight 3.5 inches TFT LCD
Display Resolution	640*480
Language	Chinese, English, Russian... 8 languages
Photo/Video Format	JPEG/MOV
Photo Resolution	640*480/1280*720/1920*1080
Video Resolution	640*480/1280*720/1920*1080
WIFI Function	WIFI (optional)

IR Function	IR/IR thermal imaging (optional)
Water Proof	tube: IP67
Memory	standard TF card:8G, maximum: 32G
Data Port	HDMI port/Micro USB
Working Time	≥4h, maximum: 8h
Battery	detachable lithium battery
Battery Capacity	3.7V, 2600mAh
Power Consumption	2W
Charging	DC5V, maximum current:1A
Weight	≤0.55kg (with battery)
Store Temperature	-23°C~63°C
Relative Humidity	maximum: 92%, non-condensing
Monitor Working Temperature	-15°C~50°C, when 0°C below, the display needs preheating.
Camera Working Temperature	-25°C~80°C, when 0°C below, please reduce oriented operation.

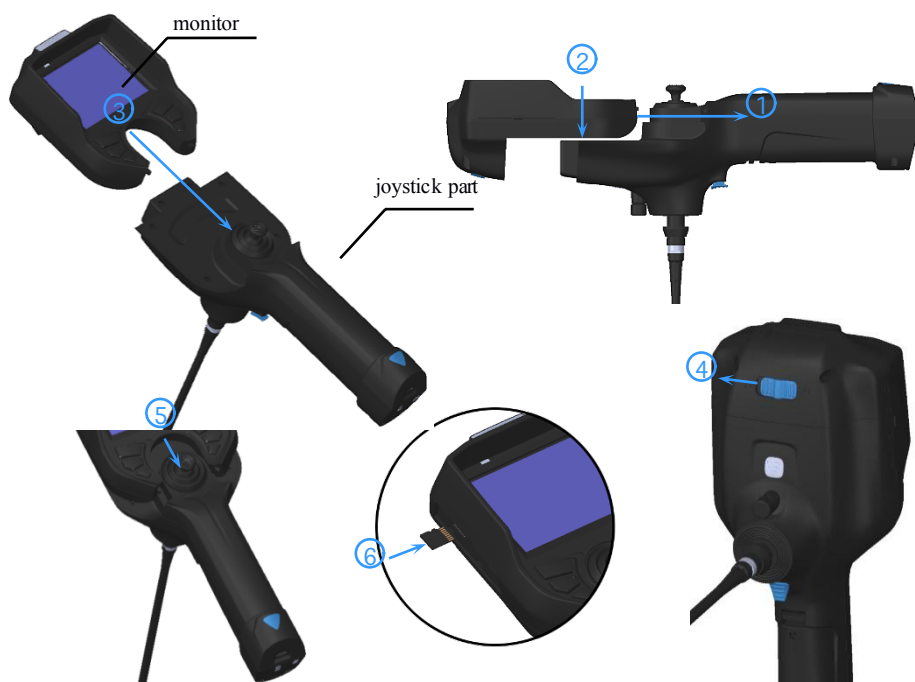
2 Operation Steps

2.1 Take out the instrument

Open the instrument case, while taking out the instrument host, set aside and pay close attention to the probe; avoid colliding the probe and scratching probe lens.

2.2 Boot preparation

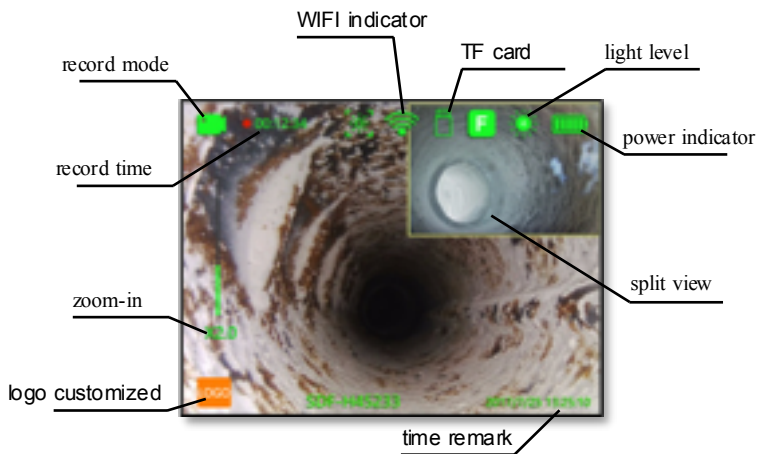
Check whether the insert tube is well connection with the monitor, the TF card and battery are installed.



- * Connect the monitor with the joystick part;
- * Make sure the monitor contacting with the upper of the handle tightly;
- * Lock the button on the back of the monitor;
- * Install the TF card.

2.3 Operation

+The operation interface is as follows:



2.4 Probe articulation control

According to the testing need, operate the joystick to control probe articulation, in order to observe. The bending motion of the front probe is controlled by rotating the joystick. During the operation, if the joystick suddenly meets larger resistance, or there is any abnormality, please immediately stop using. After adjust the joystick to the middle position, please remove the insert tube carefully from the testing equipment.



2.5 After use

Turn off the power switch, put the instrument into the portable case, and put the tube into the case well.

3 Solutions to common problems

Problem	Reason	Solution
Boot without reaction	no battery or power shortage	charge or install battery
Auto shutdown	battery power shortage	charge or change battery
Boot screen freezing	system boot failure or battery power shortage	remove the battery to re install and restart or charge
The image cannot be recorded or found	the capacity of TF card is not enough	replace TF card or delete useless files