

IPS Handheld Digital Endoscope
Model:451P

User manual
EN

SAFETY WARNING:

Please read the following instructions carefully and save this manual.

Do not follow the instructions listed in this manual may result in electric shock, fire or serious personal injury.

WELCOME:

Welcome to buy this product. Please read the instructions carefully before use.

This product is a new type of practical device that can perform real-time video viewing, video recording and taking pictures. Mainly used in areas where the line of sight cannot be observed, such as: car repair, sewer inspection/ maintenance, air conditioning inspection and repair, etc.

FEATURES:

- 1.4.5-inch color high-definition IPS screen
- 2.1080P HD image
- 3.360°image rotation
- 4.TF card can be installed to achieve file storage function. Maximum support 32GB.

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- 5.8mm HD camera
- 6.Clear viewing range from 5cm to 500cm
- 7.Type-c plug-in, easy to replace different lenses
- 8.6 adjustable LED lights
- 9.IP67 waterproof



APPLICATION:

It is widely used in aviation, automobiles, ships, electrical, chemical, electric power, natural gas, atomic energy, civil engineering and construction.

Industrial endoscopes can also monitor, record, store and analyze targets.

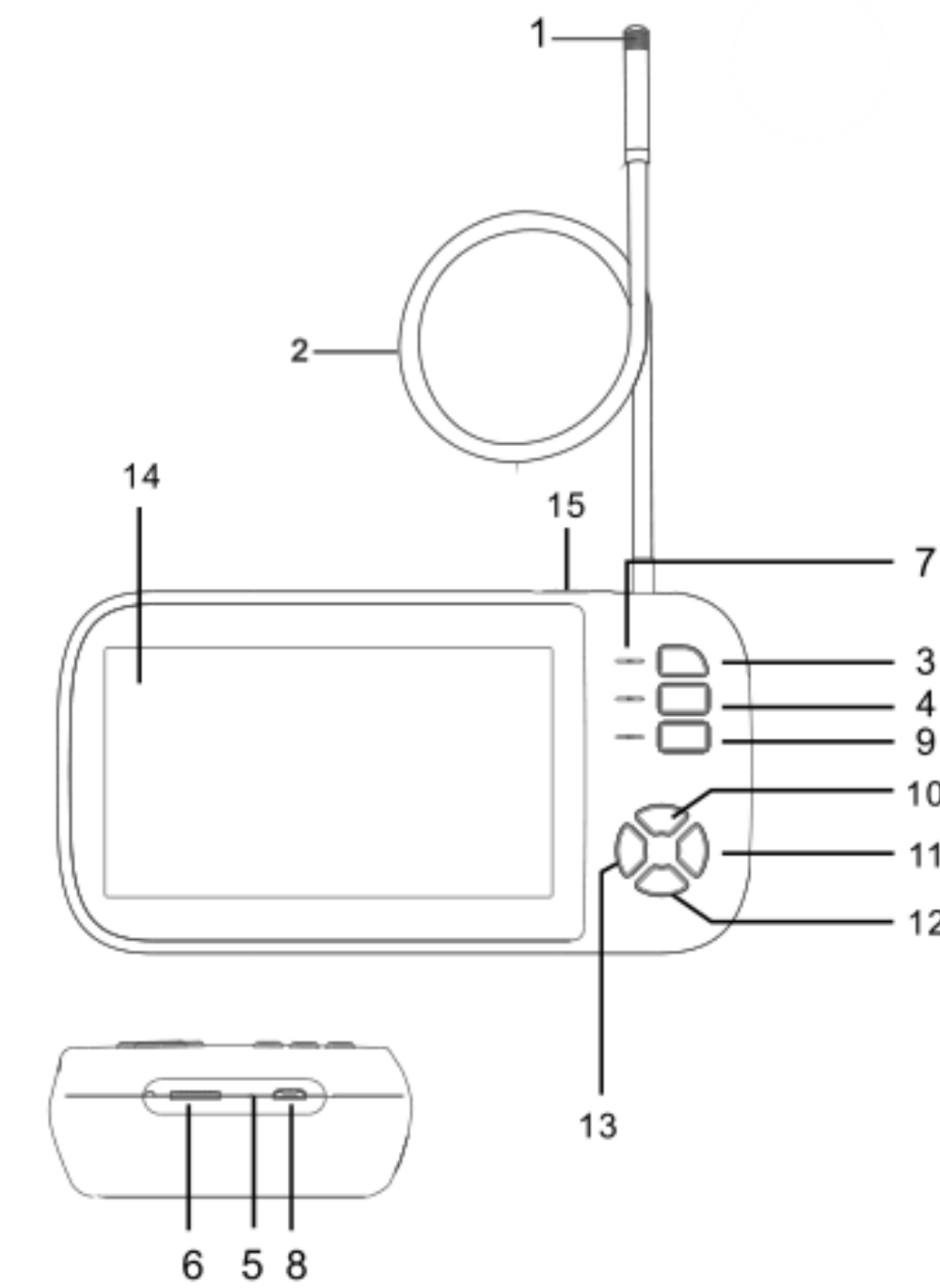
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ACCESSORIES LIST:

1. IPS Digital endoscope
2. Manual
3. USB data cable
4. Accessories - Hook, magnet, side mirror, protective cap

FEATURES:

(1) Part name and function



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- | | |
|---------------------------|-------------------------|
| 1. Camera | 9. Take pictures |
| 2. Cable | 10. Up and rotate |
| 3. Settings button | 11. OK |
| 4. Light adjustment | 12. Down |
| 5. Reset button hole | 13. Back button |
| 6. MicroTF card slot | 14. 4.5 inch IPS screen |
| 7. Charging indicator | 15. Unlock switch |
| 8. DC 5V/1A charging port | |

(2) Function introduction

- 1.Micro TF card slot: supports up to 32GB MicroTF card, Only supports TF cards with class 10 or higher FAT32 format(not equipped with this unit)
- 2.Micro port: 5V/1A power supply
- 3.Power button: long press for 3 seconds to turn on or off the device
- 4.Photo button: short press to take a photo
- 5.Video button: Longpress to start recording, press again to stop recording
- 6.Setting button: Short press to enter the menu page, where you can set the Resolution / Language settings / Date&time / Date label / Brightness / Screen protector / Automatic shut-down / Format / Default settings / Version
- 7.Up button: Image mode is rotation function. Other modes are left or up movement.

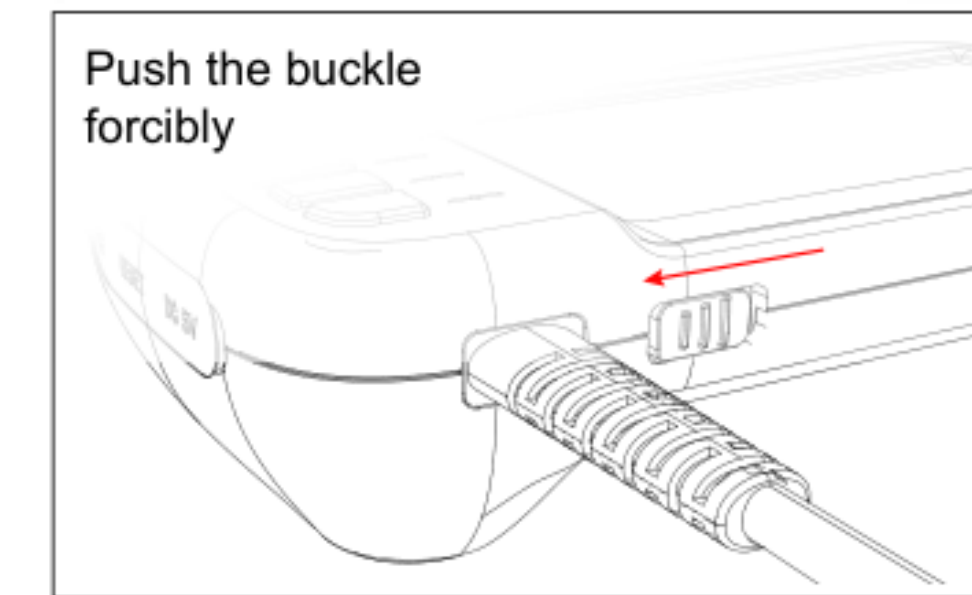
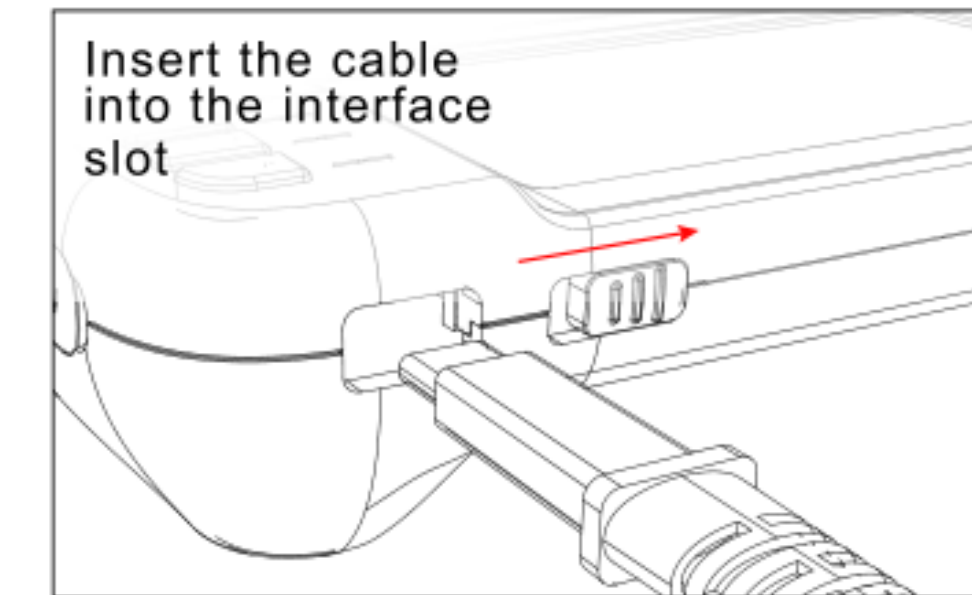
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8. OK button: short press to confirm
9. Back button: short press to return to the previous menu
10. LED brightness adjustment button: camera brightness is divided into three levels
11. Indicator light: The charging indicator light is always on and the light becomes green when fully charged

INSTALLATION NOTES:

(1) Installation hose

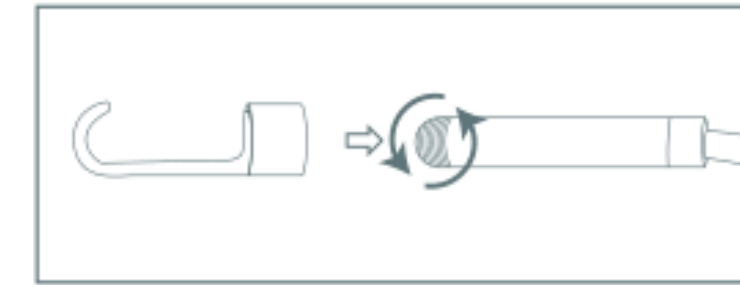
Insert the Type-C interface into the display screen



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(2) Installation accessories

How to install the four accessories? The protective cap, hook, the side mirror and the magnet are the same.



STEPS FOR USAGE:

(1) Basic operation

- 1.Insert the MicroTF card (not equipped with this unit)into the MicroTF card slot; Press gently until the card is locked (note: the class 10 MicroTF card must be inserted to record and store pictures and videos)
- 2.When turning on, press the LED brightness adjustment button to adjust the brightness of the camera.

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- 3.Short press the camera button to take a photo, longpress the video button to record.

CHARGING:

When the battery is low, insert the miniature end of the data cable into the charging port at the bottom of the fuselage, and then plug the other end of the power adapter into the standard AC outlet.

The charging indicator light is always red when charging, and it lights up green when fully charged. The charging time is 2.5 to 3 hours.

TECHNICAL PARAMETERS:

Product name	Industrial endoscope
Monitor	4.5-inch IPS screen
Camera resolution	1920*1080P
Horizontal viewing angle	70 °
Language	English, German, Simplified Spanish, French, Russian, Japanese
Line length	1m, 5m, 10m optional
Clear viewing range	5CM—500CM
Waterproof level	IP67 (only for lens/line)
Lens diameter	8mm
Battery capacity	1800mAh
Battery endurance	About 2.5 H

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TROUBLESHOOTING:

Problem	Solution
Device cannot be turned on	The battery is low, charge the machine for about 3H, restart
TF card reading failed	1. TF card format is incorrect? (This device only supports FAT32 file format) 2. Reinsert after removing the TF card
After the device is connected to the PC, the TF card cannot be read.	1. Reconnect the device and PC 2. Confirm whether to enter the Mass storage mode
Device crash	1. First insert the USB data cable to charge the product will automatically shut down, then press the power button to reset 2. It can be reset by lightly pressing the reset hole with a fine needle
Smudged or smeared on the screen	Wipe the screen and lens gently with a clean cloth dipped in dipped in little alcohol
Cannot charge or the charging indicator does not light up	Please replace the charging cable

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FCC INFORMATION:

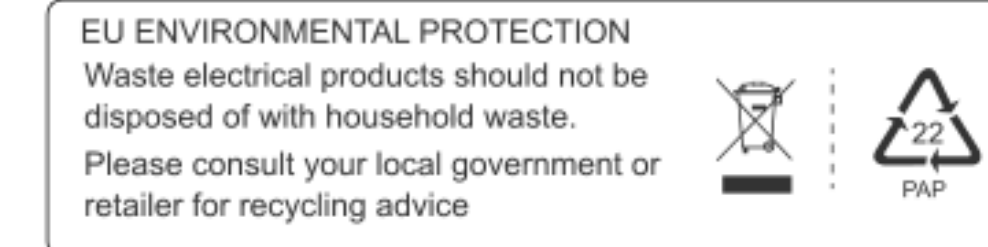
This device complies with Part 15 of the FCC Rules.

Subject to the following two conditions:

- 1.This device does not cause harmful interference.
- 2.This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

EU ENVIRONMENTAL PROTECTION:

- 1.Waste electrical products should not be disposed of with household waste
- 2.Please consult your local government or retailer for recycling advice.
- 3.If the number contained in the user manual has any minor changes without prior notice.



*There are any minor changes to the numbers included in the user manual without prior notice

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