



Camera Tester User Manual



Please read this manual before switching the unit on.
Important safety information inside.

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1.Warning

Safety Notes

Before using the instrument, please read all safety information and specification of the Video borescope carefully.

Maintenance and Cleaning

- Repairing or maintenance should be carried out by professional persons, the user cannot proceed it just only according to the manual.
- The camera can't be cleaned by using any impregnant, eradicator and so on.

Dangerous voltage

Dangerous voltage symbols means it may cause a serious electric shock accident in case of an improper operation. Please wearing insulation gloves when use it.

Safety symbols

Double insulation, conforming to CE safety standards.

2.Introduction

This is a small and elegant design camera. It is simple to operate and mainly used for TV output display. It can receive NTSC/PAL Video Format and switchover automatically. 2.4" TFT LCD LCD screen shows high definition and exquisite image.

3.Feature

- Build-in 1800mAh lithium battery, support USB charging.
- Can standby camera when charge it.
- NTSC/PAL auto Switchover.
- High definition 2.4" TFT LCD Resolution: 480x234.
- Go standby model automatically if no signal input and awake itself when receive video signal.
- Convenient to carry and easy to operate.

4. Specifications

TFT-LCD

Color TFT-LCD size	2.4 inch
Display resolution	480(W)X234(H)
Active area	48mmX35.6mm

Video format

NTSC/PAL	1.0(Vp-p)
Standard automatic conversion	

Power

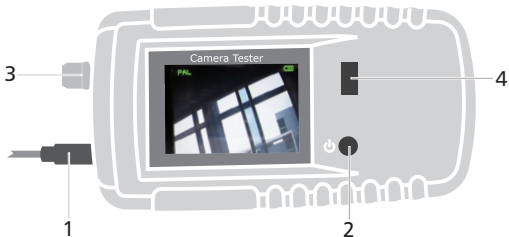
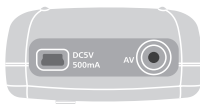
Battery	Lithium batteries
Working Current	MAX 400mA
Standby Current	MAX 5MA
Low Battery display	3.3V

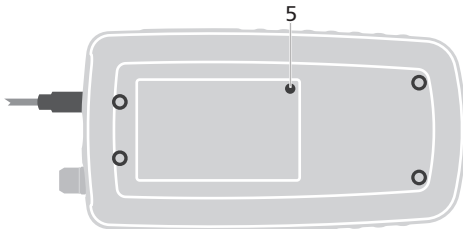
Temperature

Operating Temperature	0°C----50°C
Storage temperature	-20°C----60°C
Relative Humidity	5% ----85%

5. Panel Name And Function Description

- 1-USB charging insert
- 2-Power button
- 3-AV input insert
- 4-Status Indicator light
- 5-System reset





6.Operation Instructions

Open and closed(close) systems

- Power Switch: Press and hold the on/off button to turn on borescope, press and hold on/off button again to turn off it.
- USB charging start-up: Insert USB cable under off state. System boot automatically and displays LOGO on screen, then enter into the LED charge indication states. TFT-LCD screen and Camera power keep off state and has no any display. In this stat, press and hold on/off button for 2 seconds, the system will enter into working state.

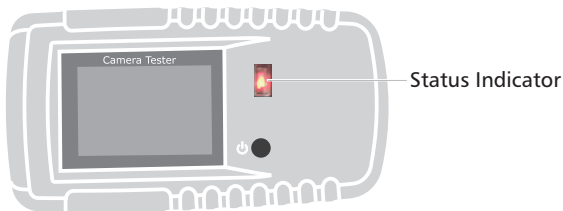
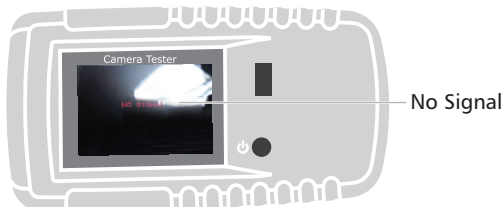


Image signal system

- Signal format can switchover between NIST and PAL automatically.
- Auto Power off without signal: TFT-LCD shows NO SIGNAL if no signals input. LED flash green and camera goes into standby state. During this time, any signals can makes camera wakes up automatically. Camera will turn off in 1.5 seconds if no any signals.
- Signal format displays at top left corner of TFT-LCD screen when receiving signal.

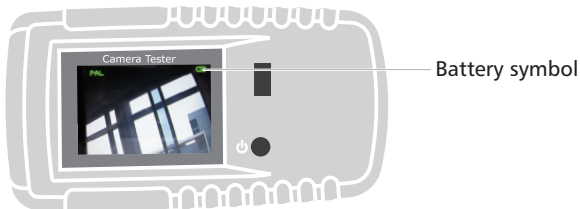


Power Supply Management

Power Supply Instructions: When system battery voltage is higher than 4.1V, "🔋" displays at top right of TFT-LCD screen. It means battery full. When battery voltage is higher than 3.9V, "🔋" displays at top right corner of TFT-LCD screen. When battery voltage is higher than 3.6V, "🔋" displays at top right corner of TFT-LCD screen. When battery voltage higher than 3.4V, "🔋" displays at top right corner of TFT-LCD screen. When battery voltage is lower than 3.3V, "🔋" displays at top right corner of TFT-LCD screen, need charge battery.

Recharging: When the voltage is lower than 4.1V, "🔋" displays at top right of TFT-LCD screen. It means camera is charging.

Full: When the battery voltage is higher than 4.1V, "🔋" displays at top right corner of TFT-LCD. It means battery charged already.



Charging Standby

If insert USB cable under off state, system will boot automatically and displays LOGO on screen, then enter into LED charge indication states. When battery voltage is higher than 4.1V, green LED on light. When battery voltage is lower than 4.1V, red LED flash slowly.

If insert USB cable under system boot state, charging indicator symbols displays at top right corner of TFT-LCD screen.

7. Notes

- The non-professional persons should not open the camera housing.
- Put down with caution.
- The camera is waterproof, but the scope body isn't waterproof, so please do not put the microscope instrument under rain or wet areas, or operate it in moist location. Once the camera tester is wringing, please immediately turn off the power supply, and have professional persons to maintain it. It is very easy to damage camera tester and to lead to electrical accidents.
- Please do not aim the camera at the sunlight, regardless of indoors and outdoors, do not operate the unit under the spotlight, strong light and beside the reflector lamp.
- Please operate the camera under the stated temperature, humidity and power supply range. The stated environment is 32°F~122°F (0°C~50°C) and humidity below 85%, the power voltage, please refer to above.

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