



FLASHLIGHT INSPECTION CAMERA

USER'S MANUAL



TS07

Please read this manual carefully and thoroughly before using this product.

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INTRODUCTION

The TS07 Flashlight Inspection Camera is ideal for making inspections of equipment and areas that are open enough to *not* require the maneuverability of a flexible borescope probe. Lighting for the line-of-sight camera is provided by a powerful LED flashlight that can be used independently. One

obvious application for the TS07 is documenting—with high-definition, date- and time-stamped video and photos—the rounds of security guards.

The TS07 can be used as a standalone flashlight, or with General's free ToolSmart™ app running on your mobile phone.

When used in concert with an iPhone® or Android™ smartphone, the TS07 can stream—via a self-generated local WiFi hotspot (without Internet access)—to the phone all live video it “sees”. The phone initiates the transfer using the ToolSmart™ app, which can be downloaded from the iTunes® App Store or Google Play Store.

Soft buttons on the app can be pressed to save video clips and capture still photos of the video stream.

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Android™ is a trademark of Google Inc.

KEY FEATURES

- Combines a powerful LED flashlight with a high-definition video recording camera
- LED flashlight can be used separately or to illuminate camera's field of view. Brightness and illumination modes (including fast strobe and “S-O-S” transmission in Morse code) are controllable from front panel.
- Aluminum flashlight/camera head cover, with knurled non-slip thermoplastic elastomer (TPE) grip and rubber overmold

SAFETY INSTRUCTIONS

The flashlight section of the Flashlight Inspection Camera uses three 2-watt LED lights that are powerful enough to disorient or cause short-term vision problems for anyone looking directly at them. Avoid staring at those lights—especially when the flashlight is operated in full power or fast strobe mode.

Keep the TS07 out of the hands of children.

Do not use the Flashlight Inspection Camera in the presence of flammable or explosive gases.

WHAT'S IN THE PACKAGE

The Flashlight Inspection Camera comes in a display box along with a rechargeable Lithium-ion battery and a USB charging cable.

1. Flashlight Inspection Camera
2. Rechargeable Lithium-ion battery
3. USB charging cable



PRODUCT OVERVIEW

- A. Camera head
- B. LED lights
- C. Charging jack
(under top cover)
- D. Reset button (under top
cover, 180° opposite
charging jack)
- E. Flashlight/camera head
cover
- F.  WiFi camera button.
**Press and hold for three seconds to turn on camera
head** and generate local WiFi network (without Internet
access). Press and hold again to turn off camera head and
network.
- G.  Flashlight power button. See the Operating Instructions
section of this manual for lighting options.
- H. Flashlight power indicator. Glows steady green when
flashlight LEDs are powered on. Flashes green when
battery is low on charge.
- I. WiFi indicator. Glows steady blue when camera head and
WiFi network are powered on. Glows steady green when
battery is charging. Flashes green when battery is low on
charge.
- J. Battery compartment
- K. Wrist strap attachment hole



SETUP INSTRUCTIONS

CHARGE BATTERY

During charging, the TS07 can be used as a flashlight, but not as a WiFi video camera. Charging may take up to eight hours.

To charge the battery:

1. Power off the TS07 by pressing and holding the  and  buttons (Callouts F and G on page 5).
2. Unscrew and remove the battery compartment (Callout J).
3. Remove and discard the clear plastic battery activation disc.
4. Insert the cylindrical plug end of the included USB cable into the jack exposed by unscrewing the head (Callout C), and the full-size (standard-A) USB plug at the other end into a USB port of your computer or a socket of a USB AC power adapter.

If you do not already own a USB AC power adapter (most smartphones include one), you can purchase one on-line or at many retail stores for less than \$5. Be aware that “trickle” charging the TS07 through a USB port of your computer will take much longer than charging it from an AC outlet.

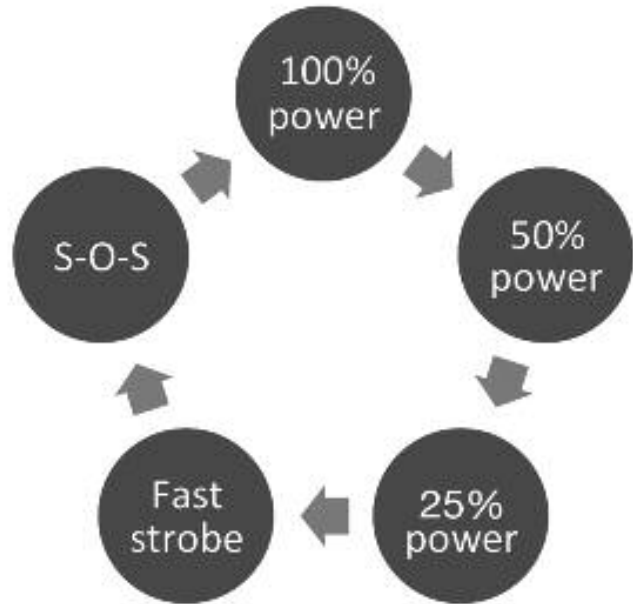
5. During charging, the Wi-Fi indicator LED (Callout I) will blink/flash green.
6. When the battery is fully charged the LED's color will switch to solid green.
7. Replace the flashlight/camera head cover and hand-tighten it.

OPERATING INSTRUCTIONS

USING THE FLASHLIGHT

The  button controls the TS07's flashlight:

- **To turn on the flashlight** at a 100% power level, briefly press the button once.
- Briefly press the  again to lower the power level to 50%.
- Briefly press the  button again to lower the power level to 25%.
- Briefly press the  button again to switch the flashlight to fast strobe mode.
- Briefly press the  button again to use the flashlight to signal S-O-S in Morse code.
- Briefly press the  button again to return the flashlight to a 100% power level.



To turn off the flashlight, press and hold the  button.

USING THE WIFI CAMERA

To use the TS07 with your phone, begin by downloading the ToolSmart™ app from the iTunes Store or Google Play Store and installing it on your phone. Then, press the  button on the TS07 to power on the camera head and generate a local WiFi hotspot. Next, detect and connect to this hotspot (IP Borescope) after activating WiFi reception on your phone.

A tutorial on the app explains how to use it to capture video clips and photos using the TS07's camera, save the files to your phone, and integrate the information in the files with data from other ToolSmart™ products.

SPECIFICATIONS

Camera Lighting: Three 2-watt LEDs delivering 150, 300 and 600 lumens at 25%, 50% and 100% power

Camera Field of View/Depth of Field: 62°/2.4 in. (60mm) to infinity

Video Resolution: HD (1280 x 720 pixels)

Water/Dust Ingress Protection Level: IP54

WiFi Standard: 802.11 b/g/n

WiFi Frame Frequency: 30 fps

Fast Strobe Frequency: 8Hz

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

@ <95%RH

Dimensions: 7.4 (L) x 1.6 in. (Dia.)/188 x 40mm, with camera head diameter of 2.3 in. (58mm)

Weight (with battery): 13 oz. (370g)

Power Source: 3.7V, 3200mAh rechargeable Li-ion battery (included)

Battery Life: 1.25 hours @ 100% LED brightness, 2 hours @ 50% brightness, 3.5 hours @ 25% brightness; 6 hours with LEDs off and WiFi on

OPERATING & MAINTENANCE TIPS

When both LEDs on the Flashlight Inspection Camera begin flashing green to indicate that the battery is becoming low on charge, charge the battery by connecting the TS07 to a power source, using the “Charge Battery” Setup instructions on page 6 as a guide.

The TS07 is *not* equipped with an Auto Power Off (APO) feature that would automatically power off the unit after a fixed period of inactivity. To avoid having to recharge the battery often, remember to power off both the flashlight and the WiFi camera head when you are finished using them.

When left in the Flashlight Inspection Camera for an extended period of time, the Lithium-ion battery may corrode and release toxic chemicals capable of permanently damaging the unit. Remove the battery when preparing the TS07 for long-term storage, and also when you do not intend to use it for weeks or months.

Use an anti-static microfiber cloth to clean the TS07 housing and other structures. Never use abrasive or chemical cleaning agents.

WARRANTY INFORMATION

General warrants its instruments and accessories, and digital tools products against defects in material or workmanship for one year from the date of purchase unless otherwise stated on the packaging, manual, and/or marketing materials.

General also warrants its non-digital tools products against defects in material or workmanship on a limited lifetime term.

General will replace or repair the defective unit, at its option, subject to verification of the defect.

This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the product. It also does not cover products purchased from unauthorized distributors. A proof of purchase must accompany each warranty claim.

Any implied warranties arising from the sale of a General product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above.

General shall not be liable for loss of use of the product or other incidental or consequential damages, expenses, or economic loss, or for any claim of such damage, expenses, or economic loss.

State laws vary. The above limitations or exclusions may not apply to you.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to a different circuit than the one the receiver is connected to.
- Consult your supplier or an experienced radio/TV technician for help.