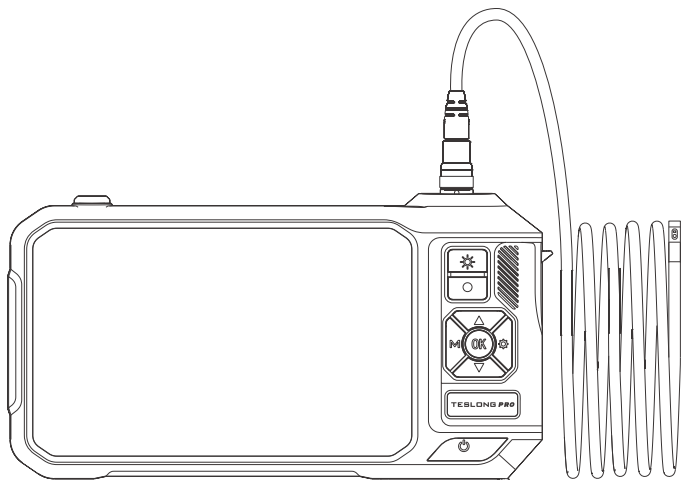


TESLONG N7 PRO

Dual Lens Inspection Camera with 7-inch Screen

Diameter: 5.5 mm (0.21 in) | Length: 2 m (6.5 ft)



User Manual

Model: N7 PRO

TABLE OF CONTENTS

SAFETY GUIDELINES	01
Safety Definitions	01
Safety	02
PRODUCT OVERVIEW	03
Description	03
Features	03
Applications	03
PRODUCT STRUCTURE	04
Buttons & Controls	04
What's in the Box	05
SPECIFICATIONS	06
Monitor Parameters	06
Camera Parameters	07
Other Parameters	08
HOW TO USE	09
How to Insert the microSD Memory Card	09
Power Button Lighting Instructions	10
UI Instructions	10
How to Switch Between Photo Taking & Video Recording	11
How to Switch to Split Screen Viewing Mode	11
Wi-Fi Connecting	12
Transfer Photo/Video Files to Your Computer	13
Cleaning & Maintenance	14
SYMBOLS	15
Icon State	15
TROUBLESHOOTING GUIDE	16
REGULATORY INFORMATION	17

SAFETY GUIDELINES

■ Safety Definitions

It is important for you to read and understand this manual. The information it contains relates to protecting **YOUR SAFETY** and **PREVENTING PROBLEMS**. The symbols below are used to help you recognize this information.

Danger

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Warning

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Caution

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Notice

Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Note

Indicates additional information, tips, or clarification.

■ Safety

⚠ WARNING

Please read all safety warnings and instructions before using this device. Failure to follow these warnings may result in electric shock, fire or serious injury.

- Keep the device dry, clean, free from oil, water, gas or other materials that may cause corrosion.
- This device is not intended to be used by people with limited physical, sensory or mental capabilities.
- This device is not intended for medical use. Keep bystanders or children away while operating the tool.

⚠ Notice

1. Keep away from humid and sun-exposed environments.
2. Avoid contact with sharp objects.
3. Do not use strong detergents or organic solvents to clean the lens; it is recommended to use a soft cloth dampened with water or rubbing alcohol for cleaning.

⚠ Warning

1. Do not pierce the device casing with nails or other sharp objects.
2. Do not strike or step on the device.
3. Avoid using it near fire or in extremely hot conditions.
4. Do not disassemble the device in any way.

PRODUCT OVERVIEW

■ Description

The N7 PRO Dual Lens Inspection Camera with 7-inch Screen features a slim 5.5 mm (0.21 in) dual lens camera probe, allowing it to easily enter narrow or tight spaces and switch between forward and side view perspectives for enhanced visibility during inspections.

With a large 7-inch HD IPS screen and user-friendly inspection features, the N7 PRO captures clear, detailed images for a wide range of applications, including automotive, HVAC, plumbing, industrial, home, and pest control inspections.

■ Features

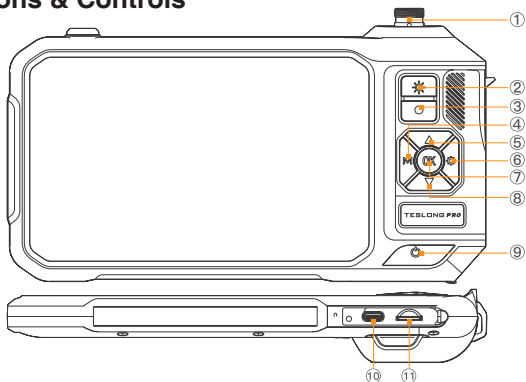
- 7-inch HD IPS screen
- Detachable probe design
- 6000 mAh rechargeable lithium battery
- USB-C charge/data port
- PD fast charging
- Split screen viewing
- Adjustable LED camera lights & integrated work light
- Wi-Fi connection & streams directly on the "Smart Endoscope" app

■ Applications

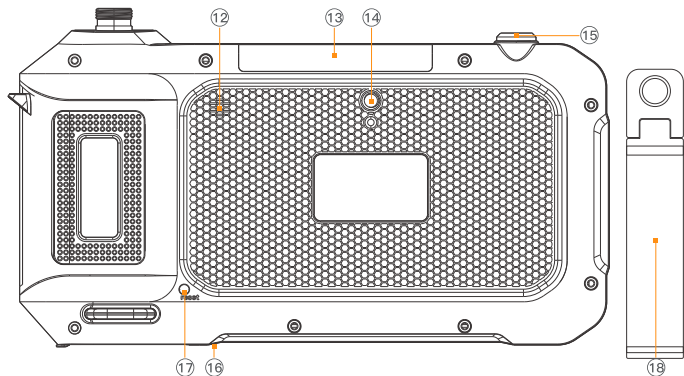
- Inspecting hard-to-reach or difficult-to-see areas
- Automotive Repair & Maintenance
- HVAC Inspection
- Plumbing Diagnostics
- Construction & Building Inspection
- Home Repair & Maintenance
- Pest Control & Inspection

PRODUCT STRUCTURE

Buttons & Controls



- ① **Cable Port:** Camera probe connection point
- ② **Camera Lights Button:** Press to adjust the camera's LED brightness
- ③ **Photo/Video Button:** Press to take photo or start/stop recording a video
Hold to switch camera view and access split screen mode
- ④ **Mode Button:** Press to switch between photo, video, and album modes
- ⑤ **Up Button:** Press to select up
- ⑥ **Settings Button:** In photo/video mode, press to enter the system settings menu
In album mode, press to delete files
Hold to turn on/off Wi-Fi signal
- ⑦ **OK Button:** Press to confirm selection
In photo/video mode, press the to pause the screen image
In album mode, select a video and press to play or pause video
- ⑧ **Down Button:** Press to select down
Press to rotate the screen 180°
- ⑨ **Power Button:** Hold to power on/off the device
- ⑩ **USB-C Charge/Data Port**
- ⑪ **microSD Memory Card Slot**



- ⑫ **Speaker**
- ⑬ **Integrated Work Light**
- ⑭ **1/4 Inch Standard Tripod Screw Mount**
- ⑮ **Integrated Work Light Button:** Press to turn on/off the integrated work light
- ⑯ **Microphone**
- ⑰ **Reset Button**
- ⑱ **Metal Monitor Stand**

■ **What's in the Box**

- 1× Monitor
- 1× USB-C Cable
- 1× Magnet Accessory
- 1× Hard Carrying Case
- 1× Hook Accessory
- 1× Metal Monitor Stand
- 1× Dual Lens Camera Probe
- 1× 32 GB miscoSD Memory Card
- 1× User Manual
- 1× Safety Manual

SPECIFICATIONS

■ Monitor Parameters

Specifcations	Details
Screen Type	7-inch IPS screen
Screen Resolution	1280x720 (HD)
Split Screen	Supported
Image Rotation	180°
Image Zoom	Not supported
Integrated Work Light	1 watt Cree LED
IP Rating	None

■ Camera Parameters

Specifications	Details
Camera Lens	Dual lens
Probe Diameter	5.5 mm (0.21 in)
Probe Length	2 m (6.5 ft)
Field of View	80°
Focus Range	A. 3–8 cm (1.18–3.15 in), B. 2–5 cm (0.79–1.97 in)
Megapixels	1 MP
Frame Rate	20 fps
Camera Voltage	5 V
Adjustable Camera Lights	A. 6 LEDs , B. 1 LED
Image Resolution	1920x1080 (Full HD) or 1280x720 (HD)
Image File Format	JPEG
Video Resolution	1920x1080 (Full HD) or 1280x720 (HD)
Video File Format	MOV
Probe Stiffness	Flexible and semi-rigid
IP Rating	IP67 dustproof and waterproof

■ Other Parameters

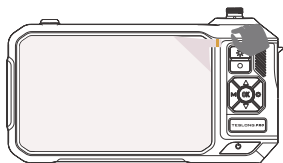
Specifications	Details
Wi-Fi Remote Viewing	Supported
Ports	USB-C charge/data port and microSD memory card slot
Memory Storage	32 GB microSD memory card (Included)
Power Source	6000 mAh rechargeable lithium battery
Battery Life	About 3.5 hours
Charging Time	About 3.5 hours PD fast charging 2.5 hours
Working Voltage	3.7 V
Input	5 V $\equiv$ 1.5 A / 9 V $\equiv$ 1.5 A / 12 V $\equiv$ 1.2 A Supports PD fast charging
Operating Temperature	0 to 45 °C (32 to 113 °F)
Product Weight	490 g (1.08 lb)
Product Dimensions	228×128.5×35 mm (8.97×5.05×1.37 in) Only the shell, excluding cables
Product Material	ABS+fiberglass, rubber, stainless steel, aluminum alloy
Shock Resistance	Designed to withstand a drop of 80 cm (2.62 ft)
Auto Power Off	Supported

For more inspection camera options please visit the official Teslong website and store: www.teslong.com.

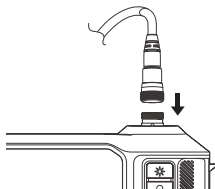
Note

Should you need replacement(s) of any other components, please contact our customer service for help.

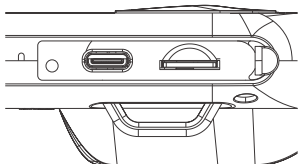
HOW TO USE



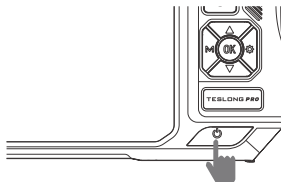
① Remove the plastic screen cover before using this device.



② Connect the cable to the monitor (make sure the camera is connected firmly to get the best image on the screen)



③ The device is equipped with a microSD memory card (Included). Please make sure it's installed before use.



④ Power on/off (Press and hold the power button to turn on the device).

■ How to Insert the microSD Memory Card

- Power off the device first before inserting the memory card.
- Make sure the orientation of the memory card is correct when inserting it into the slot.
- Do not use excessive pressure when inserting or removing the memory card from the slot.
- Only take photos or record videos when a memory card is inserted.
- This device requires a Class 10 high speed memory card and it will not be able to work properly with a Class 4 low speed card.

■ Power Button Lighting Instructions



Device Running: Blue LED stays on



Charging (Device on): Red/blue LED flashes



Charging (Device off): Red LED stays on

■ UI Instructions

Modes: Press **M** to switch the three modes:

-  Photo taking
-  Video recording
-  Album

Memory Card Status: Memory card inserted/no card

Battery Status



Date and Time: Modify the date and time in the Settings menu

■ How to Switch Between Photo Taking & Video Recording

Photo Taking



Press **[M]** to switch to "Photo Taking" mode, and press **[]** to take a photo.

Video Recording



Press **[M]** to switch to "video recording" mode, and press **[]** to start/stop recording.

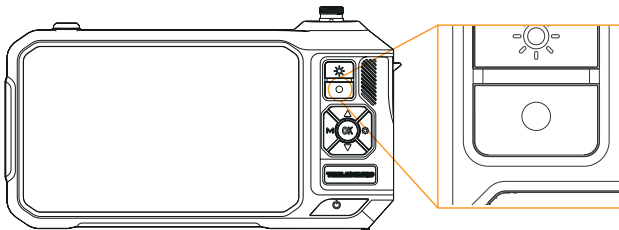
In any modes, press the "⚙️" button twice to enter the system settings menu.

Click **[▲]** **[▼]** button to select and **[OK]** button to save the changes.

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

■ How to Switch to Split Screen Viewing Mode

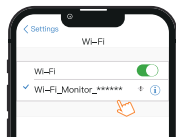
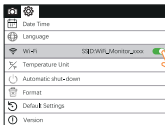
Press and hold the Photo button to toggle to split-screen viewing with the front camera (A) and side camera (B).



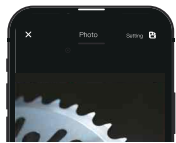
■ Wi-Fi Connecting

How to display the image on your phone/tablet

- ① Use your phone to scan the QR code and download "Smart Endoscope" app.
- ② Turn on your device's Wi-Fi in Settings.
- ③ Connect to the Wi-Fi.



- ④ Run the app.
- ⑤ Click the + button in the app to set up the device and start using it with your phone/tablet.
- ⑥ Start displaying the image on your phone/tablet.

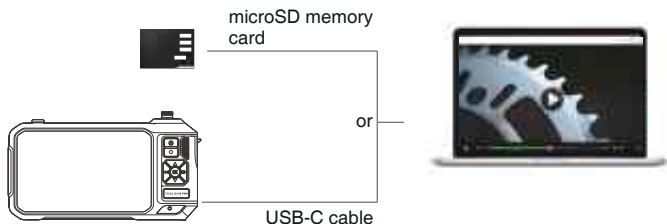


⚠ Note

Please note photo/video are only supported by your phone/tablet (not on the device itself while in Wi-Fi mode).

Scan the QR code or enter the activation code printed on the card to remove the ads in the app.

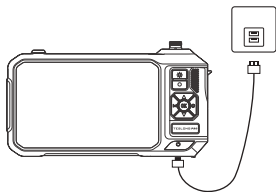
■ Transfer Photo/Video Files to Your Computer



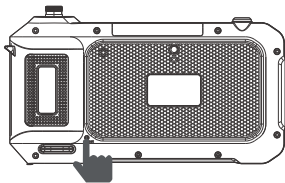
1. Use a microSD memory card reader to transfer data directly.
2. Connect your computer with the USB-C cable to transfer files.

⚠ Notice

Pull out camera probe first before using a USB-C cable.



Please use a USB-C wall charger that supports PD fast charging and the appropriate cable to charge your device.



If the device crashes, please press the reset button to restore it.



EU Environmental Protection

Waste electrical products should not be disposed with household waste.

Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

■ **Cleaning & Maintenance**

- Keep the camera lens clean.
- Keep the working area clean.
- Avoid excessive lens cleaning to prevent damage.
- Do not clean the lens with alcohol, detergents, or organic solvents. Use only a soft cloth lightly dampened with water.
- Do not use paper towels or regular towels, as these may scratch the anti-reflective coating on the lens.
- If the device is used in a way not specified by the manufacturer, its protective features may be impaired.
- If the device will not be used for an extended period, charge it at least once every 3 months to protect the battery.
- Store the device in a dry, well-ventilated environment to prevent moisture damage to internal components.
- Avoid direct sunlight. Prolonged exposure can accelerate aging of the housing and internal parts, reducing lifespan.
- Avoid extreme temperatures (such as hot car trunks or freezing outdoor conditions) to maintain optimal performance.

SYMBOLS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

■ Icon State

	Photo mode
	Video mode
	No memory card
	With memory Card
	Charge immediately
	Power 25%
	Power 50%
	Power 75%
	Full battery
	Charging
	Solid without arrows means connected but no data transmission.
	Solid with arrows means connected with data transmission.
	Automatic alarm when over 75 °C (167 °F) power off when over 85 °C (185 °F).

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Possible Solution
The image is blurry	The lens is dirty or has stains	Check if the lens is dirty or has stains. If so, gently clean it with a soft, damp cloth.
	Insufficient shooting distance	Ensure the distance between the lens and the subject is at least 3 cm for a clearer image.
Cannot take photos or record videos	Memory card failure	Try replacing the memory card. A faulty memory card may prevent the camera from responding or saving photos and videos.
Unable to charge	The charging port dirty	The charging port may be dirty. Clean it with a soft brush and try again.
	The charging cable faulty	The charging cable might be faulty. Try using a different cable.

REGULATORY INFORMATION

FCC Information

Please note that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance

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, if it is not installed and used in accordance with the instructions, it 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 into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Conditions

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.
2. This device must accept any interference received, including interference that may cause undesired operation.



Customer Service

Please contact us if you have any questions,
we would love to hear from you.



To review your warranty coverage
please visit www.teslong.com/warranty



Lifetime Technical Support



support@teslong.com



1-877-899-8809 (US)
Mon-Fri, 8:00 AM-5:00 PM PST



www.teslong.com



@TeslongInc



@teslongusa



@teslongusa



@teslongusa



© TESLONG N7 PRO F0303 V1.0
3.06.04.000907