



Manuals.plus /

› thinkcar /

› THINKCAR TES102 Endoscope Camera User Manual

thinkcar TES102

THINKCAR TES102 Endoscope Camera User Manual

Model: TES102

1. INTRODUCTION

The THINKCAR TES102 Endoscope Camera is a versatile inspection tool designed for detailed visual examination in hard-to-reach areas. It features a high-resolution camera with adjustable LED lighting, a waterproof probe, and compatibility with various THINKCAR diagnostic scanners and personal computers. This manual provides essential information for the safe and effective operation and maintenance of your TES102 Endoscope Camera.

MULTI-SCENARIO USE

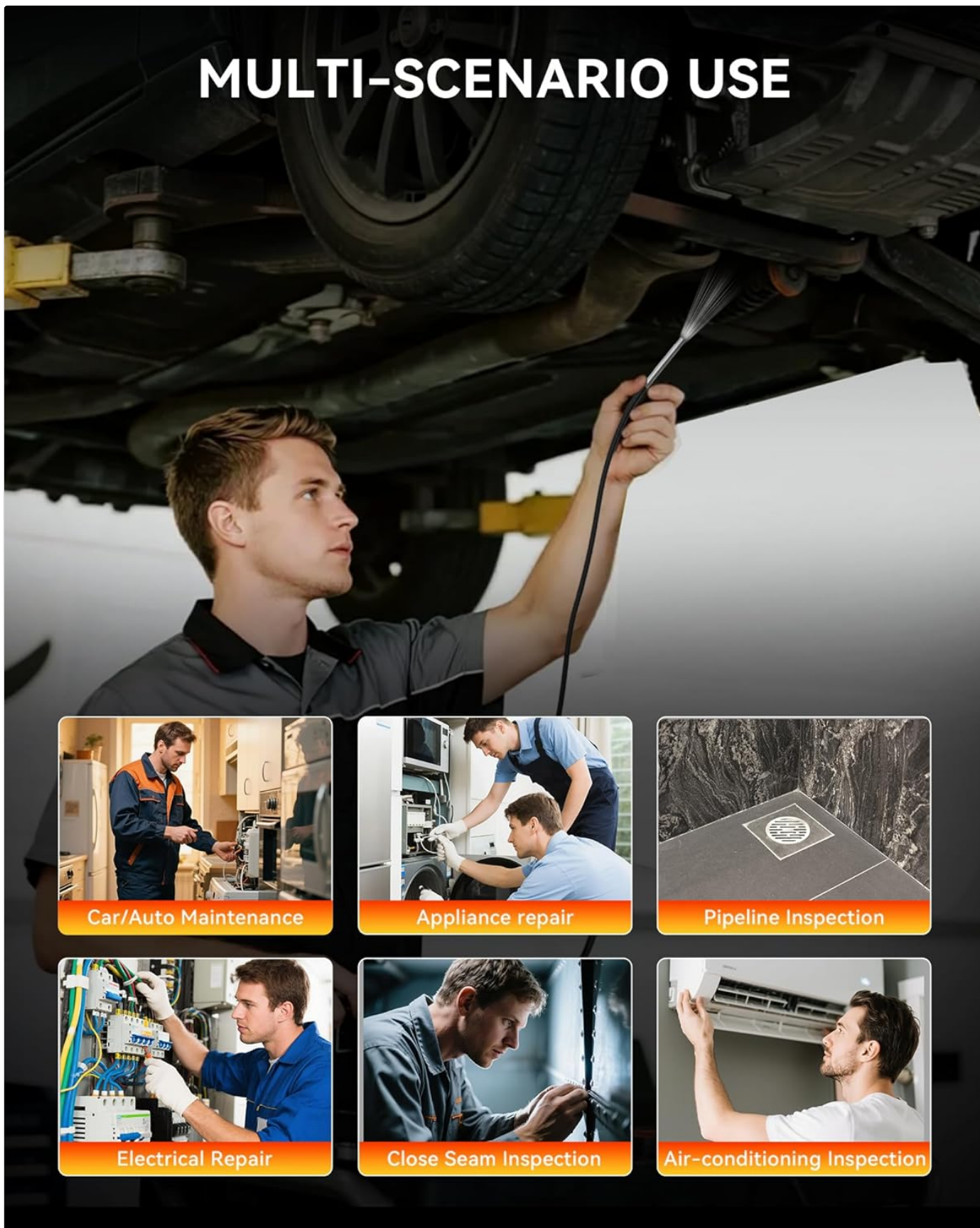


Figure 1: Multi-scenario use of the THINKCAR TES102 Endoscope Camera, including automotive, appliance, pipeline, electrical, and air-conditioning inspections.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using the device. Failure to follow these instructions may result in injury or damage to the device.

- Do not use the device in explosive atmospheres or near flammable liquids or gases.

- Ensure the camera probe is clean and free from debris before insertion into any area.
- Avoid bending the semi-rigid cable beyond its natural flexibility to prevent damage.
- The camera probe is IP67 waterproof; however, the main unit is not. Do not submerge the main unit in water.
- Keep the device out of reach of children.
- Use only the provided cables and accessories.

3. PACKAGE CONTENTS

Verify that all items are present in the package upon unboxing:

- THINKCAR TES102 Endoscope Camera
- Type-C USB Cable
- Micro USB Cable
- Hook Attachment
- Magnet Attachment
- Mirror Attachment
- User Manual (this document)



Figure 2: The TES102 Endoscope Camera, cables, and attachments as included in the package.

4. PRODUCT OVERVIEW

The THINKCAR TES102 is designed for ease of use and high performance in various inspection tasks. It features a compact design with an integrated control handle for light adjustment and snapshot functions.

- **Camera Probe:** Ultra-slim 5.5mm diameter, 2MP sensor, 1280x720 HD resolution.
- **LED Lights:** 6 adjustable super bright LEDs for illumination in dark environments.
- **Cable:** Flexible 35.43-inch (2.95ft) semi-rigid snake cable.
- **Waterproof Rating:** IP67 for the camera probe, allowing submersion up to 3.3 feet.
- **Connectivity:** USB 2.0, Type-C, and Micro USB for broad compatibility.
- **Operation:** Plug-and-play functionality, no Wi-Fi or Bluetooth required.

ALWAYS READY TO USE



No WIFI
required



No Bluetooth
required



No charging
required



Plug
and play



Figure 3: The TES102 is always ready to use, requiring no Wi-Fi, Bluetooth, or external charging, operating via plug-and-play.

720P HD ENDOSCOPE



Figure 4: The TES102 features a 720P HD endoscope for clear visual inspections.

5. SETUP

The TES102 Endoscope Camera is designed for simple plug-and-play operation with compatible devices.

5.1 Connecting to a THINKCAR Scanner

1. Ensure your THINKCAR scanner is powered on.

2. Connect the appropriate USB cable (Type-C or Micro USB) from the TES102 Endoscope Camera to your THINKCAR scanner's USB port.
3. The scanner should automatically detect the endoscope camera. Follow any on-screen prompts to access the camera feed.

5.2 Connecting to a PC

1. Connect the appropriate USB cable (Type-C or Micro USB) from the TES102 Endoscope Camera to your PC's USB port.
2. The PC should recognize the device as a standard USB camera.
3. Open a camera application (e.g., Windows Camera, Photo Booth on Mac, or third-party webcam software) to view the live feed.

COMPATIBLE WITH ALL THINKCAR & MUCAR SCANNER

THINKSCAN 689BT

MUCAR 892BT

THINKSCAN 689

MUCAR VO7S

THINKSCAN 672

MUCAR VO6



Figure 5: The TES102 is compatible with a range of THINKCAR and MUCAR diagnostic scanners, including Thinkscan 689BT, Mucar 892BT, Thinkscan 689, Mucar VO7S, Thinkscan 672, and Mucar VO6.

6. OPERATING INSTRUCTIONS

6.1 Adjusting LED Brightness

The TES102 features 6 adjustable LED lights on the camera probe to illuminate dark inspection areas. Rotate the dial on the endoscope handle to increase or decrease the brightness as needed.



Figure 6: The control handle features a dial to adjust the brightness of the 6 LED lights on the camera probe.

6.2 Capturing Images and Videos

The endoscope allows for one-click snapshots and video recording. Press the designated button on the handle to capture an image or start/stop video recording. The exact function may vary slightly depending on the connected device's software.

EASY ENTRY INTO HARD -TO-REACH AREAS

One click to take pictures or videos



Figure 7: The endoscope handle includes buttons for one-click image capture or video recording, facilitating easy documentation of inspections.

6.3 Using Attachments

The TES102 comes with three useful attachments: a hook, a magnet, and a mirror. These can be screwed onto the camera probe for enhanced functionality.

- **Hook:** Useful for retrieving small objects from tight spaces.
- **Magnet:** Ideal for picking up metallic items like screws or washers.

- **Mirror:** Provides an alternative viewing angle for inspecting sides or corners.

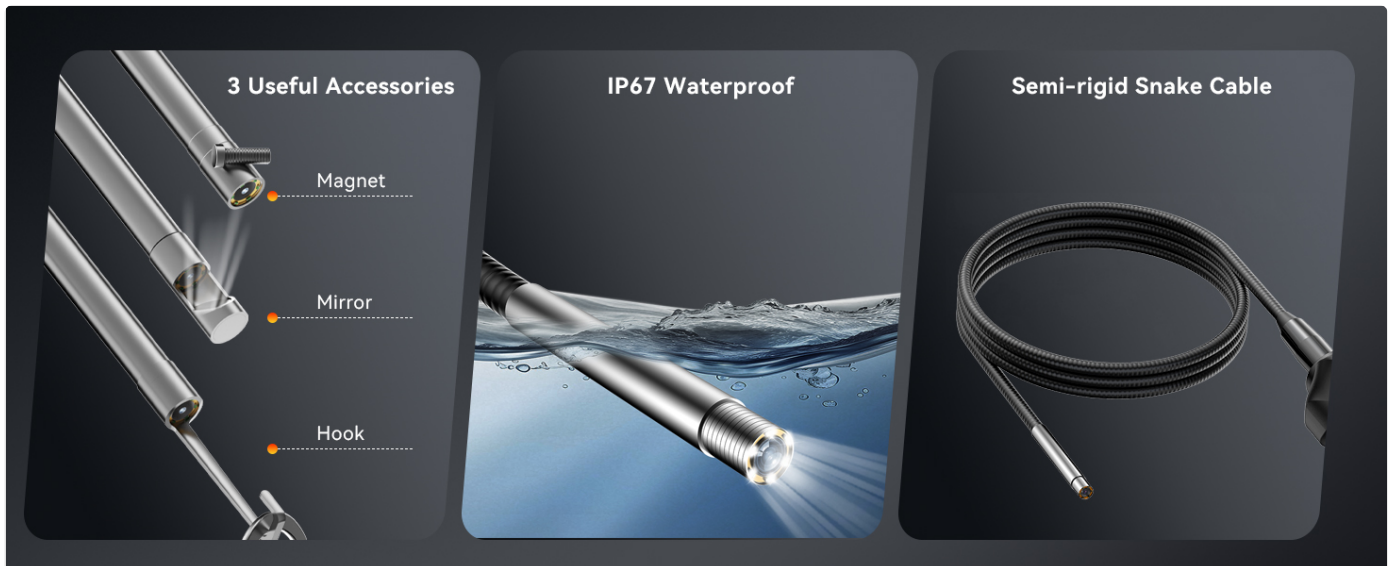


Figure 8: The TES102 includes hook, magnet, and mirror attachments for versatile inspection and retrieval tasks.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your TES102 Endoscope Camera.

- **Cleaning the Camera Probe:** After each use, gently wipe the camera lens and probe with a soft, damp cloth. For stubborn dirt, use a small amount of isopropyl alcohol. Ensure the probe is dry before storage.
- **Storage:** Store the endoscope camera in a clean, dry place, away from extreme temperatures and direct sunlight. Avoid tightly coiling the semi-rigid cable to prevent damage.
- **Cable Care:** Do not pull on the cable forcefully or use it to lift the main unit.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen	Incorrect connection; software not open/selected; damaged cable.	Ensure the USB cable is securely connected. Open the camera application on your device and select the TES102 as the input source. Try a different USB port or cable.
Image is dark or unclear	Insufficient lighting; dirty camera lens; incorrect focus distance.	Adjust the LED brightness using the dial on the handle. Clean the camera lens. Ensure the object is within the optimal focus distance (3-8cm).
Device not recognized by PC/Scanner	Driver issue; incompatible port; faulty cable.	Try a different USB port. Ensure your operating system is up to date. If using a scanner, ensure its software supports external camera input.

9. SPECIFICATIONS

Feature	Specification
Len O.D.	5.5mm
Sensor Size	2.8mm
Resolution	1280*720 (720p HD)
Frame Rate	30fps
View Angle	74°
Focus Distance	3-8cm
Dimmable LED	6pcs
Water Resistance Level	IP67 (probe only)
Operating Temperature	0°C to 65°C
Tube Length	900mm (35.43 inches / 2.95 feet)
USB Cable Length	1200mm
USB Port	USB2.0 / Type C / Micro USB
Effective Still Resolution	2 MP
File Format	JPEG, MP4

PRODUCT SPECIFICATION



Len O.D.(mm)	5.5mm
Sensor Size	2.8mm
Resolutlon	1280*720
Frame Rate	30fps
View Angle	74°
Focus Distance	3-8cm
White Comparision	Automatic
Exposure Light	Automatic
Dimmable LED	6pcs
Operating Temperature	0°C to 65°C
Tube O.D.(mm)	4.8mm
Tube Length	900mm
Bending Radius	50mm
UsB Cable Length	1200mm
USB Port	USB2.0/Type C/Micro usB

Figure 9: Detailed product specifications for the THINKCAR TES102 Endoscope Camera.

10. WARRANTY AND SUPPORT

The THINKCAR TES102 Endoscope Camera comes with a 1-year warranty from the date of purchase. Additionally, THINKCAR offers a 60-day replacement and full refund policy for any product issues.

For technical support, warranty claims, or any questions regarding the product, please contact THINKCAR support at support@mythinkcar.com.

