

**EXTECH**

**QUICK START**

# Compact Borescope BR95



# Introduction

Thank you for selecting the Extech BR95 Compact Borescope. This device provides real-time video monitoring and stores images and video to a micro SD card.

Camera images can be viewed, zoomed, rotated, stored, downloaded to a PC, and illuminated using adjustable camera lamps. Optional USB sensors measure temperature, humidity, carbon monoxide, and carbon dioxide.

Visit our website for customer support and to download the detailed user manual and additional translations.

## Safety

### **WARNINGS** ⚠

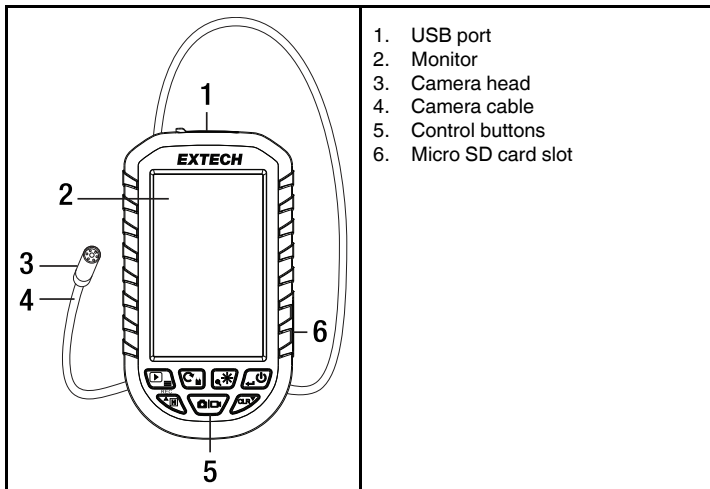
- Risk of injury or loss of life if this product is used without heeding the published warnings.
- For industrial commercial use only.
- Do not use this system in environments where this is a risk of explosion or near flammable gas.
- The lighting produced by this device can cause eye injury if observed directly.

### **CAUTIONS** ⚠

- Do not forcibly bend the camera cable, the minimum bend radius is 1 in. (25 mm).
- Only the camera and cable are waterproof (IP67).

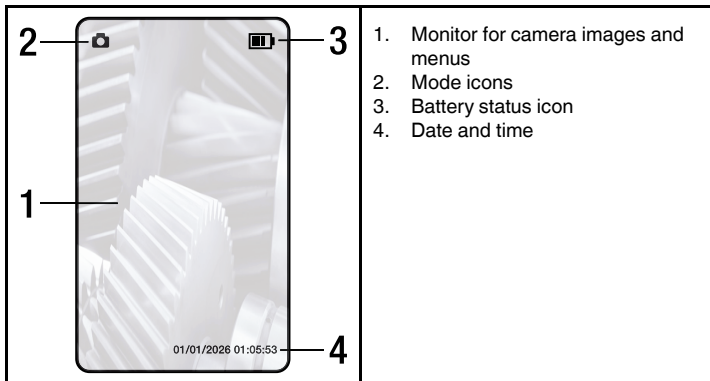
# Description

## Main Instrument










1. USB port
2. Monitor
3. Camera head
4. Camera cable
5. Control buttons
6. Micro SD card slot

## Basic Display




1. Monitor for camera images and menus
2. Mode icons
3. Battery status icon
4. Date and time

## Control Buttons


	Short press: Open image gallery Long press: Open settings menu
	Short press: Rotate image (delete media in the gallery) Long press: Switch between camera image and full-screen mode (optional sensors)
	Short press: Adjust camera lamps Long press: Zoom image
	Short press: Confirm (Enter) Long press: Power ON-OFF
	Short press: Freeze displayed reading (optional sensors) or as an up arrow in menus Long press: Start/stop data logging (optional sensor)
	Short press: Capture image or video Long press: Select image or video mode
	Short press: Down arrow in menus Long press: Reset MAX/MIN readings (optional sensors)

## Rechargeable Battery


The BR95 is powered by a rechargeable lithium battery. The battery status indicator  is located in the upper right corner of the monitor. The battery is not user-serviceable.

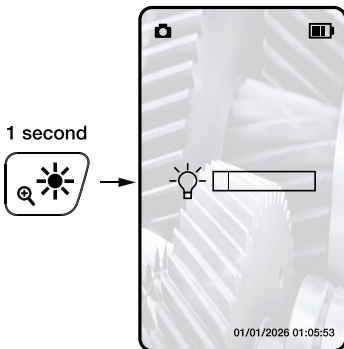
To charge the battery, connect USB cable to the BR95 (top) and to a charger. A full charge requires 4 hours and provides 3.5 hours of continuous use.

## Getting Started


To switch ON, press the power button  for 2 seconds and release. Uncoil the cable and insert camera into the area under test.

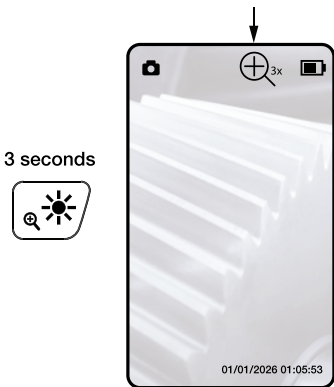
# Camera Lamp Brightness

Short press  to adjust camera lamp brightness.




# Zoom Camera Image

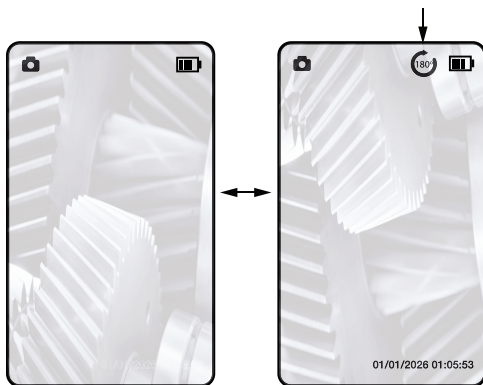
Long press  to zoom image (1x, 2x, 3x).



# Rotate Camera Image

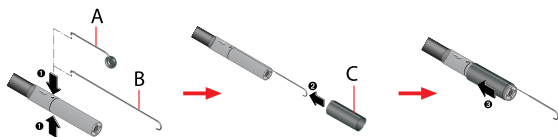
Short press  to rotate the camera image 180°.

1 second

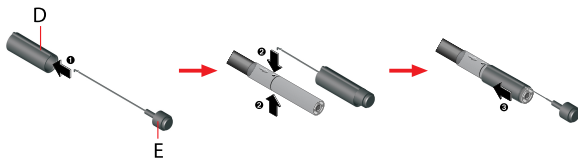


## Camera Accessories



Accessories: Magnet, single hook, mirror, and fixture. Place the single hook (B) or mirror (A) into the hole on the camera lens as indicated by the arrow in the diagram below, and then push the fixture (C), to secure it.





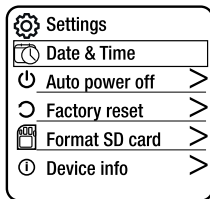
Insert the magnet (E) into the fixture (D), with the pointed end placed in the hole on the lens as indicated by the arrow in the diagram below, and then tighten the fixture.



## Settings Menu

Customize the parameters, shown in the image below, in the Settings menu. Additional parameters appear when an optional sensor is connected. Long press  to open the menu, and use the arrows to scroll. Press  to open a menu option.

For each Settings option, use the arrows to scroll, or to change a setting, press  to select and confirm options, and press  to return to the main menu and to exit. Download the user manual for detailed instructions.








## Images and Video

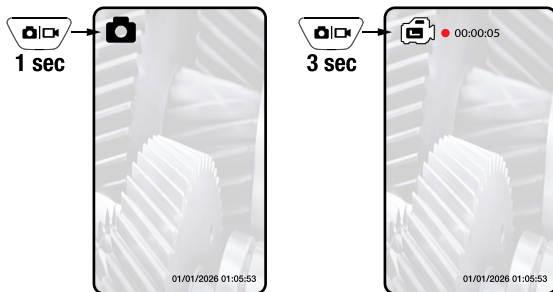
### Micro SD Card

Images and video are stored on a micro SD card (128 G max.). Insert card in the slot on the right side of the BR95, under the flap. Format cards in the Settings menu.



### Capturing Images and Video

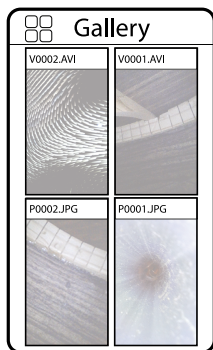
Image mode is the default mode ( is displayed). Short press  to capture an image. To start video recording, long press


 . The video icon will flash, the timer will start, and the red dot will flash, as shown below. Long press  to stop and to re-start recording. Short press  to return to Image mode.

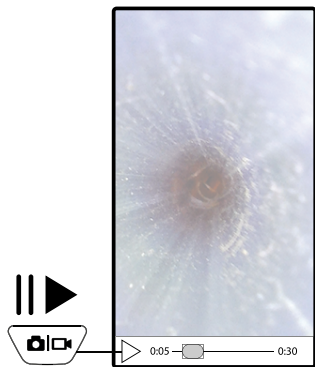



### Images and Video Gallery

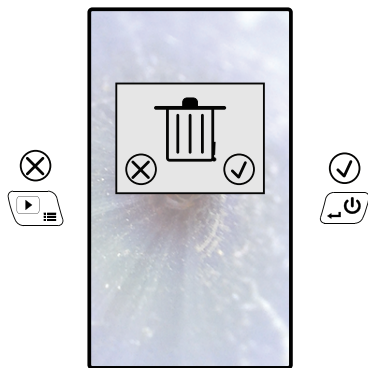
Short press  to open or close the gallery. Use the arrow buttons to select an image or video and short press  to open it.



Pause and resume video using the Image/Video button , as shown below.



To delete, short press , at an opened image or video. A delete prompt will appear, as shown below.



### Downloading Media to a PC

Connect to a PC with a USB cable. The USB-C port is located at the top of the BR95, under the flap. The monitor will show 'USB DISK' while connected. Use the BR95 in the same way as a flash drive to manage media.

# Optional Sensors

Optional sensors monitor temperature and humidity (BR95–RH), carbon dioxide (BR95–CO<sub>2</sub>), and carbon monoxide (BR95–CO). Sensors attach to the USB port.

Readings are displayed on the monitor and logged to the micro SD card. Logged readings can be downloaded to a PC and opened in a spreadsheet. See the BR95 user manual for complete instructions.

## Cleaning

Use clean water, mild detergent, and a swab to clean the camera and cable. Do not use corrosive liquids, such as alcohol to clean the lens. The main unit can be wiped with a damp cloth when necessary; never use solvents or abrasives.

## Specifications

### General Specifications

Monitor	LCD, 8.9 cm (3.5 in.); 800 x 480 pixels
Zoom	1, 2, and 3 x
Media storage	Micro SD card (128 G, max.)
Rechargeable battery	3.7 V, 2600mAh lithium ion
Auto Power OFF (APO)	OFF, 5, 10, or 20 minutes
Operating conditions	32 to 113°F (0 to 45°C); < 85% RH
Storage conditions	-4 to 140°F (-20 to 60°C); < 85% RH
Dimensions	5.0 x 3.0 x 1.5 in. (127 x 76.2 x 38.1 mm)
Weight	11.5 oz. (325 g)

## Camera Specifications

Diameter	0.2 in. (5.5 mm)
Resolution	1280 x 720 pixels
Frame rate	15 to 30 fps
Focal range	1.4 to 2.4 in. (3.5 to 6 cm)
Field of view	68° diagonal
Cable length	3.3 ft. (1 m)
Cable bend radius	1 in. (25 mm) minimum
Ingress rating	IP67 (camera and cable only)

## Customer Support

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Returns (RMA):

<https://customer.flir.com/Home>

## Warranty

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit the support site, link below.

<https://www.flir.com/support-center/warranty/>





**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

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