

EXTECH®

DV40 Non-Contact Voltage Detector and IR Thermometer



Safety

WARNING: Risk of Electrocutation. Before use, always test the Voltage Detector on a known live circuit to verify proper operation

WARNING: Risk of Electrocutation. Keep hands and fingers on the body of the probe and away from the probe tip

CAUTION: Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

Do not attempt to repair this unit. There are no user serviceable parts.

Do not expose the unit to extreme temperatures or high humidity

Do not use the unit if it is wet or damaged

Do not apply more than the rated voltage between the probe tip and ground.

Do not operate with the case open



This symbol, adjacent to another symbol or terminal, indicates the user the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present



Double insulation



Battery Installation

1. Access the battery compartment by gently pressing the pocket clip release latch and sliding the cover down.
2. Insert three LR44 button batteries (observe polarity).
3. Replace and latch the cover



All EU users are legally bound by the battery ordinance to return all used batteries to collection points in your community or wherever batteries / accumulators are sold! Disposal in the household garbage is prohibited!

Specifications

IR Thermometer

| | |
|--------------------------|-----------------------------|
| Range | -20 to 445°F (-30 to 230°C) |
| Resolution | 0.1°F/°C |
| Emissivity settings | 0.95 fixed |
| Distance to Target Ratio | 1:1 |

Accuracy

| | |
|-------------------------------|--|
| 77.1 to 445°F (25.1 to 230°C) | ± 2.0% of reading or ±4°F/2°C whichever is greater |
| -7.9 to 77°F (-9.9 to 25°C) | ±6°F/3°C |
| -20 to -8.0°F (-30 to -10°C) | ±8°F/4°C |

Non-Contact Voltage Detector

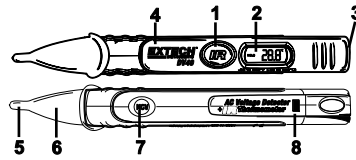
| | |
|---------------------|-----------------|
| Voltage Sensitivity | 50V to 1000V AC |
| Bandwidth | 50/60Hz |
| Detection distance | 1" @ 105V |

General

| | |
|-----------------------|---|
| Display | 9999 count LCD display |
| Operating Temperature | 32 to 122°F (0 to 50°C) |
| Operating Humidity | 10% to 80% RH |
| Power Supply | 3 LR44 or A76 button batteries |
| Weight | 1.25oz. / 35.5g |
| Storage Temperature | 14 to 140°F (-10 to 60°C) |
| Altitude | Operating below 2000 meters |
| Dimensions/Weight | 6.25x1" (159x25mm) / 1.25oz / 35.5g |
| Safety | For indoor use and in accordance with Overvoltage Category IV-600V, Category III 1000V, Pollution Degree 2. |

Operating Instructions

1. IRT measure button
2. LCD display.
3. IRT port
4. Battery compartment
5. NCV detector
6. NCV indicator cone
7. NCV measurement button
8. Battery compartment release latch.



AC VOLTAGE DETECTION

WARNING: Risk of Electrocution. Before use, always test the Voltage Detector on a known live circuit to verify proper operation

1. PRESS and HOLD the NCV button.
2. The cone tip will light up for approximately 2 seconds and then turn off, ensuring that the LED is working correctly. Continue holding the NCV button.
3. Place the probe tip near the hot conductor or next to the hot side of the electrical outlet.
4. If AC voltage is present, the detector cone will produce a steady constant glow.

NOTE: The conductors in electrical cord sets are often twisted. For best results, rub the probe tip along a length of the cord to assure placing the tip in close proximity to the live conductor.

NOTE: The detector is designed with high sensitivity. Static electricity or other sources of energy will randomly trip the sensor. This is normal operation.

IR TEMPERATURE MEASUREMENTS

NOTE: The IR thermometer has a distance to target ratio of 1:1. For the most accurate readings position the meter as close as possible to the target.

1. Point the IR sensor toward object to be measured,
2. PRESS and HOLD the IR button.
3. The meter will turn ON, "SCAN" will flash in the display and the measured surface temperature will appear in the display.
4. Release the MEASURE button, "HOLD" will appear and the last measured value will remain in the display until the meter turns off (approximately 30 seconds).

Displaying °F or °C

The temperature units



selection switch is located in the battery compartment.

Two-year Warranty

*Teledyne FLIR LLC warrants this Extech brand instrument to be free of defects in parts and workmanship for **two years** from date of shipment (a six-month limited warranty applies to sensors and cables). To view the full warranty text please visit: <http://www.extech.com/support/warranties>.*

Calibration and Repair Services

Teledyne FLIR LLC offers **calibration and repair services** for the Extech brand products we sell. We offer NIST traceable calibration for most of our products. Contact us for information on calibration and repair availability, refer to the contact information below. Annual calibrations should be performed to verify meter performance and accuracy. Product specifications are subject to change without notice. Please visit our website for the most up-to-date product information: www.extech.com.

Contact Customer Support

Customer Support Telephone List: <https://support.flir.com/contact>

Calibration, Repair, and Returns: repair@extech.com

Technical Support: <https://support.flir.com>

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