EXTECH INSTRUMENTS
A FLIR COMPANY

User's Guide **DV40 Non-Contact Voltage Detector and IR Thermometer**

Safety

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

WARNING: Risk of Electrocution. 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

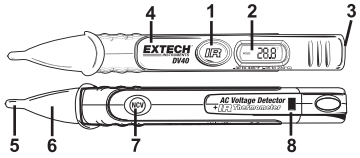
BATTERY INSTALLATION

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

NOTE: If your meter does not work properly, check the battery to make sure that it still good and that it is properly inserted.

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.

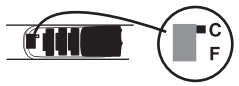
IR TEMPERATURE MEASUREMENTS

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.



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

-8 to 445°F (-10 to 230°C)	± 2.0% of reading or ±4ºF/2ºC whichever is greater
-20 to -8°F (-30 to -10°C)	±8ºF/4ºC

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.