User's Guide

EXTECH INSTRUMENTS
A FLIR COMPANY




# DV20 Non-Contact Voltage Detector and Flashlight

## 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

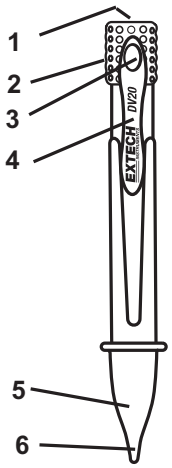
## Operating Instructions

**AC VOLTAGE DETECTION**

1. Touch the probe tip (6) to the hot conductor or insert into the hot side of the electrical outlet.
2. If AC voltage is present, the detector cone will illuminate (5).

**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 may randomly trip the sensor. This is normal operation.




**FLASHLIGHT**

Press and hold the flashlight ON/OFF button (3) to turn on the flashlight (1).

## Specifications

| | |
|---|---|
| **Voltage Sensitivity** | 100V to 600V AC |
| **Bandwidth** | 50/60Hz |
| **Detection distance** | <0.2" |
| **Operating Temperature** | 32 to 122°F (0 to 50°C) |
| **Storage Temperature** | -4 to 140°F (-20 to 60°C) |
| **Altitude** | Operating below 2000 meters |
| **Relative Humidity** | 80% up to 31°C, decreasing to 50% at 50°C |
| **Battery** | 2 AAA batteries |
| **Dimensions/Weight** | 6.25x1" (159x25mm) / 1.5oz (42g) |
| **Safety** | For indoor use and in accordance with Overvoltage Category III-600V, Pollution Degree 2. |
| **UL Listed** | The UL mark does not indicate that this product has been evaluated for the accuracy of its readings. |

**BATTERY INSTALLATION**

1. Remove the end cap (2) by gently lifting the pocket clip (4) to release the catch.
2. Insert two AAA batteries (observe polarity).
3. Replace the end cap

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

## Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website at www.extech.com (click on 'Contact Extech' and go to 'Service Department' to request an RA number). A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

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