

# DT102

UV/IR Handheld Tester



## Standard Features

- Generates a Typical UV / IR Flame Signature for Testing a Variety of Devices, especially those requiring a strong UV source.
- Uses Standard 9V Battery
- Wide Operating Temperature Range
- Smooth, Non-Shedding ABS Enclosure

## General Information

The DT102 is a factory approved handheld test source that is designed for testing a variety of flame detection devices by emitting a strong steady state UV signal and a modulated IR signal at a flicker frequency of 4 Hz. By simulating the signature of a typical fire, the DT102 is ideal for applications where the use of a real test fire is either impractical or unsafe.

Designed for use in non-hazardous locations, the DT102 is recommended for safely performing NFPA 72 required flame testing of Sierra's flame detectors.

The DT102 is rated for a wide temperature range and can be used in Clean Room or Wet Bench environments where drying or heating elements are present. A user replaceable 9V battery eliminates the need for proprietary or rechargeable power supplies.

## Specifications

(subject to change without notice)

### Sensitivity:

Typically used for testing Sierra flame detectors at approximately 2 feet on axis. Response times are dependent on both the environment and equipment being tested.

### Spectral Emissions:

Ultraviolet: 185 to 260 nm  
Infrared: 940 nm

### Enclosure:

White ABS Plastic

### LED:

Operation is Indicated by a Flashing Red LED

### Dimensions:

2.6" X 4.1" X 1.5"

### Electrical:

Input Voltage: 9V Battery

### Temperature Range:

Operating: 0° C to 75° C

### Humidity:

10% to 90%

## Standard Operation

With a flame detector operating normally, aim the DT102 on-axis at the face of the detector at an approximate distance of 2 feet. Press and hold the power button to activate the tester. The red LED on the front of the DT102 should begin flashing to indicate operation. The detector should respond within the time specified in the device's manual.

**Safety Note:** If the detector is connected to an extinguishing system, the outputs to the system should be disconnected prior to testing to avoid accidental discharge.