

RayGen UV+IR/IR3/UV+IR3 UNIVERSAL Flame Detector Tester

No Warm-up Time Required, Lightweight, Battery-operated, Remote Control!!!

Most optical flame sensors react to UV and IR radiation emitted from flames during combustion and use flame flicker techniques to distinguish between real flames and other optical false sources.

RayGen is the REVOLUTIONARY Flame Detector Tester and microprocessor-based flame simulator for the testing of UV+IR/IR3/UV+IR3 flame detector. The test unit simulates UV+IR/IR3/UV+IR3 WITHOUT USING A REAL FLAME such as a Gaslighter, burning newspaper, and a torch lamp. These units generate a suitable range of optical output signals including various PWM flickering of UV and IR radiation beam to the flame detector. (Patent technology)

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Features:

8 Programmable PWM Flickers and Pulses
Beep Sound for Each Event
Support Remote Controller
Battery Full/Low Indicator
Battery Voltage Check Function

4 Digit Display for Easy-to-Use Functionality
Mechanically Adjustable Angle Focus
Adjustable Extension Pole: up to 4 meters
Support Smartphone App: Android5.0
Front Face Protection(Removable Hard Cover)

Specifications:

Test Range UV/IR3 Flame Detector:
Operating Time:
Rechargeable Battery:
Power Adaptor:
Housing Material:
Adjustable Extension Pole:
Weight:
Dimension:
Temperature Range:

Up to 3m(10ft)
Continuous 8 hours(IR3 ON)
Lithium-Ion CR18650X2(3.7VX2)
DC 5V 2A
Non-flammable ABS
Aluminum Pole(4 meters Adjustable)
800g (Excluding Extension Pole)
210 x 125 x 210mm (12.5" x 5.0" x 12.5")
-20 to +50°C

Note:

1. IR3: Supported
2. UV+IR3: Supported
3. UV+IR:
UV+IR(Pyroelectric type of sensor) supported
UV+IR(Thermopile type sensor) not supported



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[YOUTUBE](#)

<https://www.youtube.com/watch?v=C7is5msWOHo>

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Side View



Face View



Control Panel



Remote Control



Smartphone App Control

Functions

Mode Button: Selectable modulated program 1 to 8 (Last memory)

IR Button: IR ON and OFF

UVC ON/OFF Button: UVC ON and OFF

IR+ ON/OFF Button: Additional IR ON and OFF

Battery Check Button: Normal (8.4V~6.8V), Charge required (Below 6.8V),

DC Input Jack: 5V 2A Input

Power ON/OFF Switch: Power ON and OFF

Battery Charge Indicator: Red LED ON during charging

Battery Low Indicator: Red LED ON (Charge required)

Battery Full Indicator: Green LED ON (Enough charge)

Battery Low Indicator Flashing: Red LED blinking (Abnormal situation/Battery Change required)

Beep Sound: Single beep sound output when changed functions

Remote controller: 20 meters (60ft)

Smartphone App available: Android 5.0

Remark

RayGen was developed in 2020 by the Korea Fire Institute's Commercialization Task Support Program. Most current flame detector testers are uncomfortable for the user due to a long warm-up time, a short operating time resulting from high current consumption, and heavy weight.

RayGen's patented technology provides similar flames by programmed multi-mode radiation emission. It also supports a long operation time by low power consumption.

Caution

The parts used in this product consist of very expensive and brittle structure.

It needs to be very careful in handling, especially be careful not to drop it on the ground or hit it, and if the equipment is disassembled or damaged by impact, you cannot receive free A/S and should pay for a repair charge.



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