



# FS-2 FLAME SIMULATOR USER'S GUIDE

## DESCRIPTION

The FS-2 Flame simulator provides the means to test Fireeye Flame scanners sensitive to UV or IR light energy. This can be used for all Fireeye screw on axial flame scanners, like Insight I, Insight II, Insight 4, Phoenix Series 2, 65UV5, 45UV5, and (48PT2 and UV1A using a pipe fitting 1" to 1/2" adaptor, not included).

## FS-2 SPECIFICATIONS:

<b>Supply Voltage:</b>	85 ~ 305VAC , 47 ~ 440Hz
<b>Power Consumption:</b>	85mA maximum without load on the external 24VDC 235mA maximum with a 300mA load on the external 24VDC
<b>Output Voltage:</b>	24VDC 900mA (500mA Fuse on panel)
<b>IR Source:</b>	940nm and 1300nm
<b>IR Frequencies:</b>	Selectable frequencies: 23Hz, 46Hz, 70Hz, 101Hz and 140Hz
<b>IR Intensity</b>	Variable
<b>UV Source:</b>	185nm to 400nm
<b>UV Frequencies:</b>	Selectable frequencies: 23Hz, 46Hz, 70Hz, 101Hz and 140Hz
<b>Temperature Rating:</b>	Operating : 0 to 50°C Storage : -20°C to 80°C
<b>Humidity:</b>	0% TO 85% R.H. Non-condensing.
<b>Protection Category:</b>	Indoors use only, IP20
<b>Unit Dimensions:</b>	Height: 7.25", Width: 6.63", Depth: 5"
<b>Construction:</b>	Plastic panel
<b>Shipping Weight:</b>	Approx. 2.2 lbs. (1.0 Kg)



**WARNING:** The UV source may be harmful to the eyes: Do **NOT** look at it directly at the UV source. The users of this device should wear the proper UV blocking eye protection.

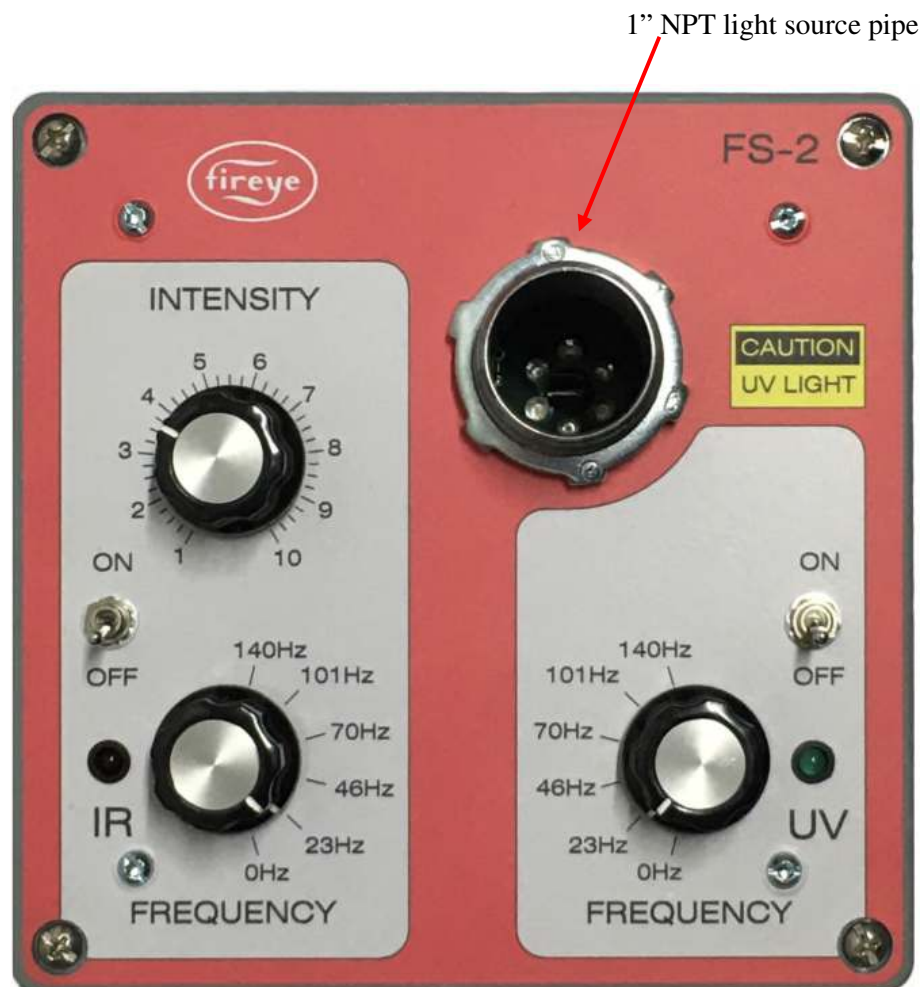
**WARNING:** The UV light may generate ozone so do **NOT** use this device in confined spaces. Use in well ventilated areas only!

**WARNING:** This UV source operates at high voltage. Do not place fingers or metal object into UV source scanner mounting tube. Potential Shock hazard!

## USING THE TESTER

The Scanner under test is mounted on the light source pipe. If the scanner under test requires 24 VDC power, connect the appropriate lead to the 24 VDC source on the front face of the tester. See the appropriate product bulletin for power connection information. If scanner under test receives its bias from the flame safeguard unit, the scanner must be connected to the appropriate flame safeguard unit in conjunction with the appropriate Fireeye product tester.

FIGURE 1.





Depending on the scanner type, turn on the appropriate UV or IR light source and adjust the frequency and or intensity to achieve a reasonable level of source to conduct level threshold testing or scanner frequency respond testing. Note, some scanners need to go through training / learn on phase to properly test the scanner. Some scanners are simple threshold type and just need the presence of the source (turned on) or the absence of a source (turned off) to test the scanner.



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## NOTICE

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## WARRANTIES

FIREYE guarantees for *one year from the date of installation or 18 months from date of manufacture* of its products to replace, or, at its option, to repair any product or part thereof (except lamps, electronic tubes and photocells) which is found defective in material or workmanship or which otherwise fails to conform to the description of the product on the face of its sales order. **THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES AND FIREYE MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.** Except as specifically stated in these general terms and conditions of sale, remedies with respect to any product or part number manufactured or sold by Fireeye shall be limited exclusively to the right to replacement or repair as above provided. In no event shall Fireeye be liable for consequential or special damages of any nature that may arise in connection with such product or part.



**FIREYE®**  
3 Manchester Road  
Derry, New Hampshire 03038 USA  
[www.fireeye.com](http://www.fireeye.com)

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