KEEP A SHARPEYE
ON YOUR SAFETY

FS-1200

FLAME SIMULATOR

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FOR ALL SPECTREX UV AND UV/IR FLAME DETECTORS

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Providing foolproof, full loop testing of your flame detection system in Zones 1 and 2 hazardous areas at up to 20ft (6m) testing distance

BECAUSE YOU NEED TO BE
ABSOLUTELY SURE!

To be fully secure against fire, flame detector self-testing is not enough. According to most local jurisdictional authorities and as required for SIL2 compliance, you need to test and ensure the integrity of your entire flame detection system at least once per year. That means performing a full system loop test from the detector, through the wiring to the controller, and up to the actual alarm notification. The only way to do so, without lighting a real fire, is with an external flame simulator.

Complete End-to-End Testing Using our Flame Simulator

The FS-1200 FLAME SIMULATOR is the essential complimentary tool to the self-testing capabilities of your Sharpeye™ UV and UV/IR Flame Detectors. It brings fire prevention safety to a higher level by giving you the ability to fully test the operational readiness of your entire fire detection system:

- **Test the integrity of all the system components:** all alarm outputs, all cabling and connections and the fire alarm panel functionality.

- **Test clear line of sight:** By using the Spectrex Flame Simulator, you will ensure that no object is obstructing the field of view, and that the detector's window lens is not obscured.

Therefore, by simulating a fire that actually triggers the detector outputs, the model FS-1200 verifies the correct operation of the UV and UV/IR flame detector, performs an essential end-to-end loop test and verifies window cleanliness.
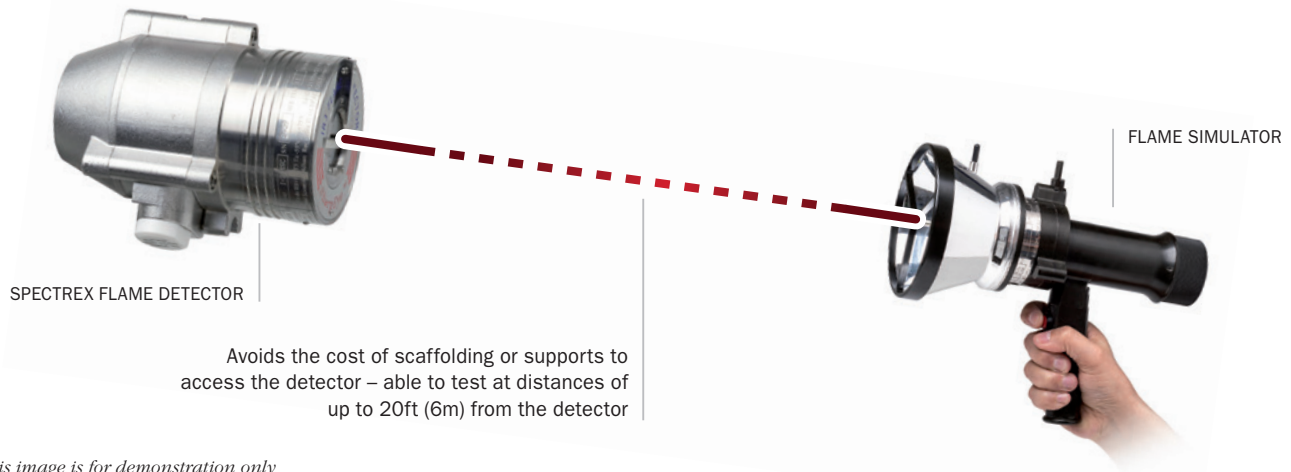
The robust and reliable FS-1200 FLAME SIMULATOR allows remote testing of flame detectors, which are often located in difficult to access and/or classified hazardous areas (Zones 1 and 2).

Key Benefits

- Long-range flame detector activation – at a range up to 20ft (6m) – a 33% increase compared to previous simulator models.
- Reduced maintenance costs with easy access for testing detectors, in hard to reach places, from floor/deck level without the need for scaffolding or ladders
- Highly portable – for hand held operation by a single operator
- ATEX/IECEx approved for use in Zones 1 and 2 hazardous areas
- Single charge is sufficient to test up to 100 detectors

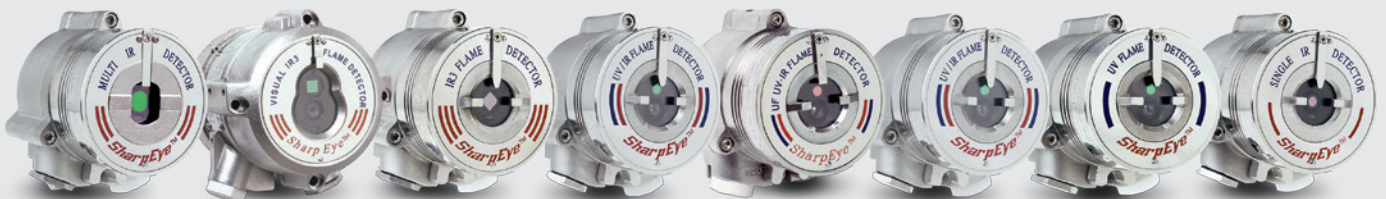## FS-1200 Flame Simulator at Work

The Spectrex flame simulator emits IR radiation in a unique pattern corresponding to, and recognizable as fire by your SharpEye Flame Detector. This allows the detector to be tested under "real" fire conditions without the associated risks of an open flame.

FLAME SIMULATOR

SPECTREX FLAME DETECTOR

Avoids the cost of scaffolding or supports to access the detector – able to test at distances of up to 20ft (6m) from the detector

This image is for demonstration only

ABOUT *SharpEye*™

The SharpEye range of Optical Flame Detectors includes a wide variety of technologies such as IR3, Multi-IR, UV/IR, all providing reliability, performance and durability. These flame detectors are equipped with a range of output options, ensuring maximum compatibility, and a wide range of approvals to ensure suitability for a variety of industries, from high risk to commercial.

Technical Specifications

The Flame Simulator Kit, Part No. 380114-2 includes the FS-1200 Flame Simulator, battery, charger, tool kit and user guide TM380102 in carrying case.

SIMULATOR MODELS

Detector Types	Sensitivity Setting	Min. Testing Distance	Testing Distance
40/40U-UB, 40/40L-LB, 20/20U-UB, 20/20L-LB, 20/20ML	50ft (15m)	2.5ft (0.75m)	20ft (6m)
40/40L4-L4B	50ft (15m)	2.5ft (0.75m)	8ft (2.5m)
40/40UFL	60ft (20m)	2.5ft (0.75m)	23ft (7m)

GENERAL SPECIFICATIONS

Operating Temperature	+32°F to +122°F (0°C to +50°C)
Vibration protection	1g (10-50Hz)
Activations between charges	100 max.

ELECTRICAL SPECIFICATIONS

Power	14.8V (4 x 3.7V rechargeable lithium-ion battery)
Maximum current	4A
Battery capacity	2.2AH
Charging time	2hr at 2A

MECHANICAL SPECIFICATIONS

Dimensions	9 x 7.3 x 5.35" (230 x 185 x 136 mm)
Weight	5.5 lb (2.5 kg)
Enclosure	Aluminum, heavy-duty copper-free, black zinc coating
Explosion-proof enclosure	ATEX and IECEx approved Ex II 2 G D Ex d ib op is IIB + H2 T5 Gb –20°C to +50°C (–4°F to +122°F)
Water and dust tight	IP65

Specifications subject to change
For more information view manual or website www.spectrex.net