



# FIREYE P/N 60-2627 FLAME SIGNAL SIMULATOR

For 45RM4, 45FS1, and 45UVFS1

## DESCRIPTION

The 60-2627 simulates a flame - flicker frequency spectrum that can be used to demonstrate the operation of the Fireeye Flame Signature series scanners, models 45FS1 and 45UVFS1, as well as the model 45RM4 scanner. Both “Flame ON” and “Background” conditions can be simulated.

The 60-2627 is a 120 vac device with a captive ac line cord. Separate 24 vdc power and scanner cabling is required for the Signature series or 45RM4 flame scanner. The illustration above shows the 60-2627 Simulator with 45FS1 Scanner (not provided).

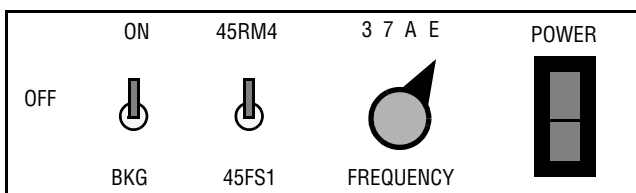
## FEATURES

2-Position Switch, Power ON / Off (illuminated)

2-Position Scanner Selector Switch, 45RM4 / 45FS1

3-Position Flame Source Selector Switch, ON / OFF / BACKGROUND

4-Position Rotary Switch, FREQUENCY “3”, “7”, “A”, “E”



## OPERATION

### MODELS 45FS1 and 45UVFS1 SIGNATURE SCANNERS

(Refer to product bulletins CU-32, CU-33)

1. Place Power Switch ON
2. Place Scanner Selector Switch in the 45FS1 position
3. Place the Flame Source selector switch in the ON position  
(You will observe the incandescent lamp in the simulator flash at a rapid rate)
4. You may now perform a “Learn Flame ON New” procedure.
5. Place the Flame Source selector switch in the BACKGROUND position  
(You will observe the incandescent lamp in the simulator flash at a lower rate)
6. You may now perform a “Learn Flame OFF New” procedure.

*Note:* The 4-position Frequency selector switch is not used to demonstrate the Flame Signature scanners.



## MODEL 45RM4 FLAME SCANNERS

(Refer to Bulletin CU-31)

1. Place Power Switch ON
2. Place Scanner Selector Switch in the *45FS1* position
3. Place the Flame Source selector switch in the ON position  
(You will observe the incandescent lamp in the simulator flash at a rapid rate).
4. You may now sweep through the 16-position frequency switch inside the 45RM4 scanner recording the scanner LED count at each position (for the Flame ON condition).
5. Place the Flame Source selector switch in the BACKGROUND position  
(You will observe the incandescent lamp in the simulator flash at a lower rate).
6. You may now sweep through the 16-position frequency switch inside the 45RM4 scanner recording the scanner LED count at each position (for the Background flame condition).
7. Select the 45RM4 frequency selector switch position where the best Flame ON LED to Background LED *ratio* was observed.

### FREQUENCY SELECTOR ROTARY SWITCH (4-Position: "3", "7", "A", "E")

This switch may be used to flash infrared LEDs (within the 60-2627 simulator) at four different rates within the frequency response range of the 45RM4 scanner.

1. Place Power Switch ON
2. Place Scanner Selector Switch in the *45RM4* position
3. Select any of the four Frequencies on the 60-2627 ("3", "7", "A", or "E")
4. You may now sweep through the 16-position frequency switch inside the 45RM4 scanner. You should observe that the highest scanner LED count will occur at a scanner frequency close to the frequency selected on the 60-2627 (within 3 or 4 switch positions).
5. You may now repeat steps 3 and 4 for the remaining three frequencies

*Note: The Flame Source selector switch is not used when the Scanner Selector Switch is in the 45RM4 position, and the incandescent lamp in the simulator will not flash*

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## NOTICE

When Fireeye products are combined with equipment manufactured by others and/or integrated into systems designed or manufactured by others, the Fireeye warranty, as stated in its General Terms and Conditions of Sale, pertains only to the Fireeye products and not to any other equipment or to the combined system or its overall performance.

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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 photo-cells) 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.



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