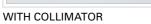


EAR



The Long Range Fire Simulators are specifically designed for use with various SharpEye Optical Flame Detectors.

The Fire Simulators emit electromagnetic radiation in a unique sequential pattern corresponding and recognizable by the specific SharpEye Flame Detectors different models as fire. This allows the detectors to be tested under real fire conditions without the associated risks of an open flame.

Models selection:

• **20/20-310** Fire Simulator is used for the Triple IR (IR3) Flame Detectors models 20/20I, 20/20XI, 20/20SI, 20/20MI, 20/20FI, 20/20CTIN and CTIP.

• **20/20-311** Fire Simulator is used for the UV/IR Flame Detectors models 20/20L-LB, 20/20ML and 20/20F and UV Flame Detectors 20/20U-UB and 20/20MU.

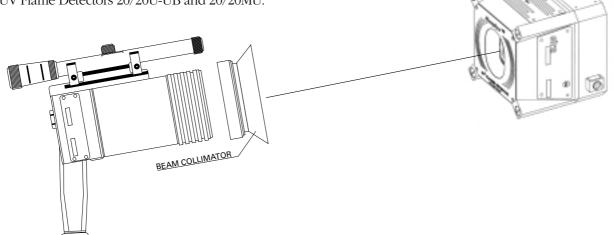
WITHOUT COLLIMATOR

• 20/20-312 Fire Simulator is used for the Single IR Flame Detector models 20/20R and 20/20MR.

• **20/20-313** Fire Simulator is used for Hydrogen Flame Detector models 20/20H, 20/20SH and 20/20MH.

The Fire Simulators use NiCd batteries as a rechargeable power source. When the batteries are fully charged the Fire Simulator will operate for at least 50 uses without recharging.

A specially designed beam collimator (model number 20/20-190) is used for extended range applications.



The drawing is for demonstration only

218 Little Falls Road | Cedar Grove | NJ 07009 | USA Tel: +1 (973) 239-8398 | 1 (800) 452-2107 *(Toll free US only)* | Fax: +1 (973) 239-7614 E-mail: spectrex@spectrex-inc.com | Web-site: www.spectrex-inc.com

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Long Range Fire Simulators

20/20-31	10, 20/20-311, 20	D/20-312,	20/20-313	
GENERAL SPECIFICATION	ONS			
Temperature Range	-4°F (-20°C) to 122°F (50°C)			
Vibration Protection	1g (10-50hz)			
ELECTRICAL SPECIFICA	TIONS			
Power	8 VDC Max.			
C	6 Rechargeable, 1.2 VDC NiCd Batteries			
Current	2.5A Avg. 400mA for 14 Hours			
Charge				
PHYSICAL SPECIFICATI	ONS			
Dimensions		11 x 10.1 x 3.9 in (292 x 258 x 100 mm)		
Weight	7.5 lb. (3.4 Kg)			
EXPLOSION PROOF EN	CLOSURE			
ATEX Approved		EX II 2G, Nemko 02ATEX255 EExd IIB T5 (50°C), IP67		
Operating Distance	/ Ranges			
Model Type	Detector Sensitivity Setting (1 ft ² (0.1m ²) gasoline pan fire)	Standard Range	Extended Range with collimato	
20/20-310 Fire Simulator				
20/20I, XI, SI, CTIN & CTIP	50 ft (15m) 100 ft (30m) 150 ft (45m)	3.8 ft (1.2m) 7 ft (2.2m) 10 ft (3.2m)	7 ft (2.2m) 14.5 ft (4.5m) 22 ft (7.0m)	
20/20FI	200 ft (60m) 6.6 ft (2m)	14.5 ft (4.5m) NA	29 ft (9m) NA	
20,2011	13.2 ft (4m)	1.3 ft (0.4m)	NA	
	20 ft (6m) 33 ft (10m)	2 ft (0.6m) 3.3 ft (1m)	2.6 ft (0.8m) 5 ft (1.5m)	
20/20MI-1	33 ft (10m)	2.3 ft (0.7m)	3.3 ft (1m)	
	65 ft (20m)	4 ft (1.2m)	8.2 ft (2.5m)	
	100 ft (30m) 132 ft (40m)	6.6 ft (2m) 10 ft (3m)	13.2 ft (4m) 20 ft (6m)	
20/20MI-3	8.2 ft (2.5m)	NA	NA	
	16.4 ft (5m) 24.7 ft (7.5m)	1 ft (0.3m) 1.6 ft (0.5m)	NA NA	
	33 ft (10m)	2.3 ft (0.7m)	3.3 ft (1m)	
20/20-311 Fire Simulator				
20/20U-UB, L-LB, MU & ML	50 ft (15m)	14.5 ft (4.5m)	29 ft (9m)	
20/20F	18 ft (6m)	2.4 ft (0.75m)	NA	
20/20-312 Fire Simulator 20/20R & MR	16.5 ft (5m)	NA	NA	
	50 ft (15m)	2.4 ft (0.75 m)	NA	
20/20-313 Fire Simulator**	~ /			
20/20SH & H	100 ft (30m)	29 ft (9m)	NA	
	75 ft (22m) 50 ft (15m)	22 ft (7m) 14.5 ft (4.5m)	NA NA	
	25 ft (7.5m)	14.5 ft (4.5 m) 11 ft (3.5 m)	NA	
20/20MH	66 ft (20m)	20 ft (6m)	NA	
	50 ft (15m) 33 ft (10m)	14.5 ft (4.5m) 10 ft (3m)	NA NA	
	16.2 ft (10m)	7 ft (2.2m)	NA	

* At extreme temperatures 15% Max. Reduction ** The Hydrogen Detector Sensivity Setting: 8" (0.2m) wide 20" (0.5m) high plume fire

Specifications subject to changes For more information view manual or website www.spectrex-inc.com

NA - Not Applicable

DS-F-Simulator, July 2006

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