

# FLIR identiFINDER® S900

Flexible and Scalable Radiation Detectors

The FLIR identiFINDER S900 is an autonomous sensor that delivers real-time radiation detection and identification. It detects the presence or movement of radioactive material across borders, into buildings, at large public gatherings, and events. It uses the same advanced template matching algorithms as the industry-leading identiFINDER® R-series to separate innocent material, such as medical patients, from threatening sources - a unique feature not offered by other area monitors. identiFINDER S900 units are available in a wide variety of form factors that can be tailored to application-specific environments and sensitivities. Deployment can begin with a standalone system and expand to include a network of systems as needs change. The detection units can be openly installed or concealed from view, allowing security personnel to interdict threats without alerting an individual it has been detected. It automatically calibrates and stabilizes without any user maintenance. The hassle-free operation and continuous data stream provided by identiFINDER S900 simplifies deployment and integration within existing security networks without disrupting daily activities.

## **CUSTOM APPLICATIONS**

- Entry control and vehicle screening checkpoints
- Package/baggage inspection
- Mailroom safeguards
- Critical infrastructure security
- VIP protection
- Event monitoring

## **FEATURES & BENEFITS**

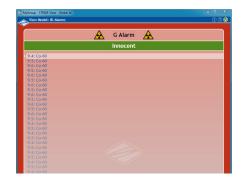
- Continuous, rapid identification of radioactive material
- Separates benign sources from true threats
- Simple alarm screens and data presentation
- Localizes position of source or tracks progression
- Flexible, scalable system addresses specific needs
- · Easily integrates into existing security architecture
- Small form factor allows it to be concealed
- Automatic calibration and stabilization
- No user maintenance



## **Specifications**

identiFINDER S900				
Technology	Autonomous radiation sensor			
Product Variants	203.2-NG <sup>1</sup> , 203.2-NGH <sup>2</sup> , 303.1-NG <sup>3</sup> , 303.1-NGH <sup>4</sup> , 403.3-NG <sup>5</sup> , 403.3-NGH <sup>6</sup> , 416.1- NG <sup>7</sup> , 416.1-NGH <sup>8</sup>			
Gamma (Nal)	2.0 x 3.0in (51 x 76mm); 2.0 x 4.0 x 16.0in (51 x 102 x 406mm) <sup>7.8</sup>			
Gamma (High Dose Rate)	Energy compensated Geiger-Müller detector			
Neutrons (He-3 PCT)	0.7 x 4.2in (19 x 106mm) <sup>2.8</sup> ; 0.75 x 3.0in (19.05 x 76.2mm) <sup>4,6</sup>			
Energy Range (Gamma)	20 keV - 3 MeV			
Throughput	>100 kcps			
Max. Input Count Rate	300 kcps			
Dose Rate Range 1-2, 5-6	0.01 $\mu\mu$ Sv/h – 1 Sv/h (1.0 $\mu$ rem/h – 100 rem/h)			
Dose Rate Range <sup>3-4, 7-8</sup>	0 µSv/h — 1 Sv/h (0 µrem/h — 100 rem/h)			
Gamma Spectrum	1024 channels; 3 MeV			
Dose Rate / Accuracy	50 keV - 1500 keV; ±30 %			
Scintillator Operating Range 1-6	0 µSv/h - 100 Sv/h (0 rem/h - 10 mrem/h)			
Scintillator Operating Range 7-8	0 µSv/h-20 Sv/h (0 rem/h-2.0 mrem/h)			
Geiger-Müller Operating Range 1-6	100 µSv/h – 10 mSv/h (10 mrem/h – 1.0 rem/h)			
Geiger-Müller Operating Range 7-8	20 µSv/h - 10 mSv/h (2.0 mrem/h - 1.0 rem/h)			
Overload Threshold	10 mSv/h – 1 Sv/h (1.0 rem/h – 100 rem/h)			
Neutron Sensitivity <sup>2, 4, 6, 8</sup>	11 cps/nv; ±20 % thermal neutrons			
Stabilization	K-40 calibration source and LED			
Typical Resolution	≤8 % FWHM at 662 keV			
Service Interval	Recommended 2 year service interval			
Sampling & Analysis				
Sample Introduction	Absorption of EM gamma or neutron emissions			
Threats	Detects neutron or gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material			
Sampling & Analysis	From a few seconds to minutes			
System Interface				
Display & Alerts	identiFINDER \$900 Data Protocol for network integration			
Communication	Ethernet RJ45, 10 Mbit/s, 100 Mbit/s			
Embedded Software	Windows <sup>®</sup> CE operating system			
Training Requirements	<10 mins for operator; 1/2 day for advanced user			
Power				
Input Voltage	DC 12V, 3W <sup>1-2, 5-8</sup> ; Power over Ethernet (PoE) <sup>1-8</sup>			
Cold Start Time	15 mins from cold start			
Environmental				
Operating Temp	-4 to 122 °F (-20 to 50 °C)			
Operating Humidity	10 to 80%, non-condensing			
Storage Temp	-22 to 158 °F (-30 to 70 °C)			
Physical Features				
Dimensions (HxDia.) / Weight <sup>1-2</sup>	25.8 x 2.5 in (654 x 63 mm) / 5.3 lb (2.4 kg)			
Dimensions (HxDia.) / Weight <sup>3-4</sup>	Tube: 35.9 x 2.5 in (911 x 63 mm) / 6.8 lb (3.1 kg) Foot: 14.7 x 2.4 in (373 x 61 mm) / 22.0 lb (10.0 kg)			
Dimensions (HxDia.) / Weight <sup>5-6</sup>	29.1 x 5.5 in (740 x 140 mm) / 17.6 lb (8.0 kg)			
Dimensions (HxWxD) / Weight <sup>7-8</sup>	35.9 x 8.6 x 6.8 in (911 x 218 x 173 mm) / 46.3 lb (21.0 kg)			
Enclosure & Protection	Aluminium <sup>1,2,7,8</sup> , PVC-U <sup>5,6</sup> , black steel <sup>3,4</sup> connection belt compatible with Tensabarrier and BelTrac; protection ratings IP54 <sup>1,4</sup> , IP55 <sup>5,6</sup> , IP62 <sup>7,8</sup>			

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