



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

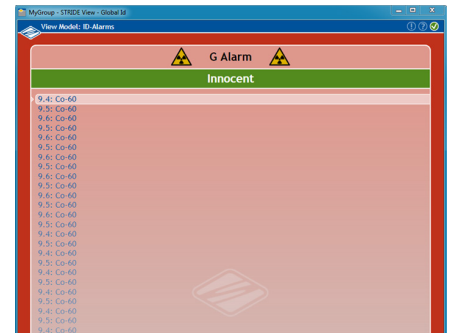
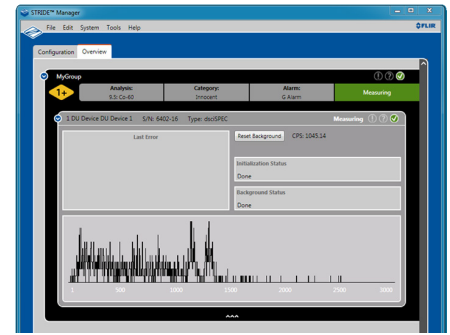
FEATURES & BENEFITS

- 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 ¹ , 203.2-NGH ² , 303.1-NG ³ , 303.1-NGH ⁴ , 403.3-NG ⁵ , 403.3-NGH ⁶ , 416.1-NG ⁷ , 416.1-NGH ⁸
Gamma (NaI)	2.0 x 3.0in (51 x 76mm); 2.0 x 4.0 x 16.0in (51 x 102 x 406mm) ^{7,8}
Gamma (High Dose Rate)	Energy compensated Geiger-Müller detector
Neutrons (He-3 PCT)	0.7 x 4.2in (19 x 106mm) ^{2,6} ; 0.75 x 3.0in (19.05 x 76.2mm) ^{4,6}
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 µSv/h – 1 Sv/h (1.0 µrem/h – 100 rem/h)
Dose Rate Range ^{3,4,7,8}	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 ^{2,4,6,8}	11 cps/hv; ±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 S900 Data Protocol for network integration
Communication	Ethernet RJ45, 10 Mbit/s, 100 Mbit/s
Embedded Software	Windows® CE operating system
Training Requirements	<10 mins for operator; 1/2 day for advanced user
Power	
Input Voltage	DC 12V, 3W ^{1,2,5,8} ; Power over Ethernet (PoE) ^{1,8}
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 ^{1,2}	25.8 x 2.5 in (654 x 63 mm) / 5.3 lb (2.4 kg)
Dimensions (HxDia.) / Weight ^{3,4}	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 ^{5,6}	29.1 x 5.5 in (740 x 140 mm) / 17.6 lb (8.0 kg)
Dimensions (HxWxD) / Weight ^{7,8}	35.9 x 8.6 x 6.8 in (911 x 218 x 173 mm) / 46.3 lb (21.0 kg)
Enclosure & Protection	Aluminium ^{1,2,7,8} ; PVC-U ^{5,6} ; black steel ^{3,4} connection belt compatible with Tensabarrier and BelTrac; protection ratings IP54 ^{1,4} , IP55 ^{5,6} , IP62 ^{7,8}



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