



# STRIDE™

## Flexible and Scalable Radiation Detectors

The FLIR Stride 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. Stride is 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 Stride simplifies deployment and integration within existing security networks without disrupting daily activities.



### CUSTOM APPLICATIONS

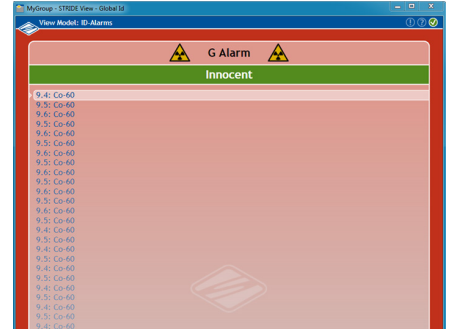
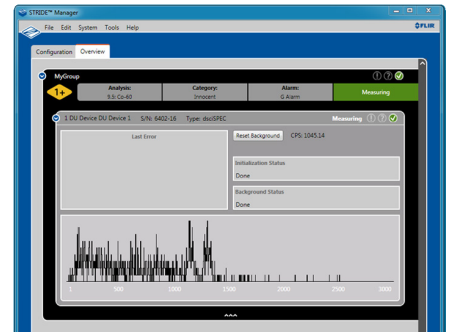
- Entry control and vehicle screening checkpoints
- Package/baggage inspection
- Mailroom safeguards
- Critical infrastructure security
- VIP protection
- Event monitoring

### 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

Stride	
<b>TECHNOLOGY</b>	
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 (NaI)	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 <sup>1-2, 5-6</sup>	0.01 µSv/h – 1 Sv/h (1.0 µrem/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 <sup>1-6</sup>	0 µSv/h – 100 Sv/h (0 rem/h – 10 mrem/h)
Scintillator Operating Range <sup>7-8</sup>	0 µSv/h – 20 Sv/h (0 rem/h – 2.0 mrem/h)
Geiger-Müller Operating Range <sup>1-6</sup>	100 µSv/h – 10 mSv/h (10 mrem/h – 1.0 rem/h)
Geiger-Müller Operating Range <sup>7-8</sup>	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/nv; ±20 % thermal neutrons
Stabilization	K-40 calibration source and LED
Typical Resolution	≤8 % FWHM at 662 keV
Service Interval	2 year factory maintenance
<b>SAMPLING &amp; ANALYSIS</b>	
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
<b>SYSTEM INTERFACE</b>	
Display & Alerts	Stride 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
<b>POWER</b>	
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
<b>ENVIRONMENTAL</b>	
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)
<b>PHYSICAL FEATURES</b>	
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>



**HEADQUARTERS**  
 FLIR Systems, Inc.  
 27700 SW Parkway Ave  
 Wilsonville, OR 97070

**DETECTION SALES, AMERICAS**  
 FLIR Detection, Inc.  
 2800 Crystal Drive, #330  
 Arlington, VA 22202  
 Phone: +1-877-692-2120  
 detection@flir.com

**DETECTION SALES, APAC**  
 FLIR Detection, Inc.  
 3 Pickering Street #03-49  
 Nankin Row  
 Singapore - 048660  
 Phone: +65-6822-1596  
 detection@flir.com

**DETECTION SALES, EMEA**  
 FLIR Detection, Inc.  
 Luxemburgstraat 2  
 2321 Meer  
 Belgium  
 Phone: +32 (0) 3665 5106  
 detection@flir.com

www.flir.com  
 NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2015 FLIR Systems, Inc. All rights reserved. (Updated 09/15)