

# DU 303.2<sup>TM</sup>

## Wireless STRIDE Stanchion

*The covert movement of special nuclear material or weapons into populated areas represents possibly the greatest threat to the security of our world. Radionuclide identification systems are required to effectively detect and / or deter this threat. They must recognize the presence or movement of radioactive material across borders, into government buildings, at large public gatherings or events and much more plus identify the radionuclide(s) present. STRIDE Detection Units and Systems were designed for this very purpose.*

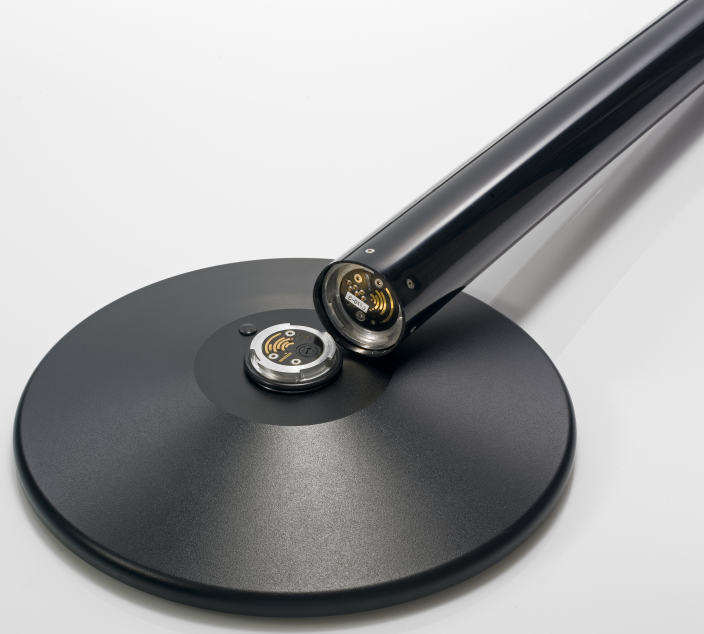
### STRIDE Wireless Stanchion Gamma Detector with Nuclide Identification

The STRIDE stanchion detection units 303.2 have been designed primarily for pedestrian security installations. The stanchion detection unit looks and works exactly the same as a standard crowd control stanchion. It has an extendable belt on top, the post and a weighted base. This wireless system will be completely covert to passengers or pedestrians. The stanchion base, weighted with lead for stability, will be replaced with a battery weighted base (batteries provided) with only a connector for an external battery charger to indicate any difference from a standard security stanchion.

The standard 2" diameter by 3" long NaI scintillation detector provides an excellent sensitivity even to small, low activity radiation sources. A typical time-to-nuclide-identification can be from a few seconds to 20 or 30 seconds, depending on the nuclide, the number of nuclides, the source activity, background and the presence or absence of shielding material.

### STRIDE Stanchion Network

The STRIDE DU 303.2 can be easily set up and configured through a web interface. This interface can also be used to monitor the status and the output of the instrument. The STRIDE Server software (sold separately) automatically detects any DU 303.2 connected to the network. Depending on the STRIDE Server configuration the DU 303.2 can be combined with other STRIDE detection units, resulting in a higher sensitivity and source tracking abilities.



### FEATURES

- Covert installation in unobtrusive security stanchion
- Rapid detection of presence of radioactivity or radioactive material
- Performs rapid and accurate radionuclide identification
- Alarms on dose rate changes above background
- Supports sources localization when using more than one instrument
- Continually stabilizes for temperature and background changes
- Dust and moisture proof
- Wireless Ethernet connection
- Server and Client software packages available
- GM detector for high dose rate situations
- Optional <sup>3</sup>He neutron detector.

## SPECIFICATIONS

### INPUT/OUTPUT

DC Power	internal, exchangeable Battery
WLAN	IEEE 802.11b/g; range $\leq 30$ m (98'5.1")
Ethernet	RJ45; POE; 10 Mbit/s; 100 Mbit/s

### PHYSICAL

Dimensions (Dia. $\times$ H)	Tube: 65 mm (2.559") $\times$ 910 mm (35.827"); Foot: 360 mm (14.173") $\times$ 50 mm (1.969")
Mass	Tube 2.7 kg (5.95 lb); Foot 11.0 kg (24.25 lb)
Connection Belts	Compatible to Tensabarrier and BelTrac

### ENVIRONMENTAL

Ambient/Operating Temperature	-15 °C – +50 °C (5 °F – 122 °F)
Storage Temperature	-30 °C – +70 °C (-22 °F – 158 °F)
Humidity	10 % – 80 %; Non Condensing
Protection Rating	Indoor IP 54

### PERFORMANCE

Energy Range (Gamma)	20 keV – 3 MeV
Throughput	> 100 kcps
Input Count Rate	300 kcps
Corrections	Spectrum linearization
Spectrum Data	1024 channels; 24 Bits per channel
Dose Rate Range	0 $\mu$ Sv/h – 100 $\mu$ Sv/h
Dose Rate Resolution	10 nSv/h
Neutron Sensitivity <sup>*2</sup>	11 cps/nv
Stabilization	LED and <sup>40</sup> K
Dose Rate Accuracy	$\pm 30$ % (50 keV – 1500 keV)
Energy Range (Dose Rate)	50 keV – 1500 keV

### BATTERY

Operating Time	> 30 h
Charge Time	< 22 h

### DETECTORS

Gamma	Nal; 2 " $\times$ 3 "
Neutron <sup>*2</sup>	<sup>3</sup> He Tube; 0.75 " $\times$ 3 "; 8 atm; surrounded by polyethelene moderator
Gamma (High Dose Rate)	Energy Compensated GM Detector

### ACCESSORIES

Battery Charger	Friwo AC/DC Adapter FW7362/12
Replacement Battery	optional

### SOFTWARE

Embedded Software	Windows CE
Interface	STRIDE XML protocol

Complete specifications available on request.



## VARIANTS

Following variations of this device are available. Specifications differing for the variants are marked in the table.

- \*1 DU 303.2-NG Wireless Stanchion Detection Unit, Nal Detector, GM Tube
- \*2 DU 303.2-NGH Wireless Stanchion Detection Unit, Nal Detector, GM Tube, <sup>3</sup>He Tube

*For situations not covered by these variants please contact our Marketing and Sales Department at the email address or phone number listed below.*

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