

# DU 303.1<sup>TM</sup>

## Wired 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 Stanchion Gamma Detector with Nuclide Identification

The STRIDE stanchion detection units 303.1 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. The stanchion has an attached RJ-45 Ethernet cable for connection to a PoE LAN receptacle. STRIDE View (sold separately) has the ability to transmit messages and/or screens to another computer or to a PDA worn by the local security officer. 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.

### STRIDE Stanchion Network

The STRIDE Server (ST-SVR) program (sold separately) is capable of operating several Stanchion Detection Units simultaneously and Stride View (ST-VW) is equally capable of displaying the results of several detection units. The STRIDE Server software automatically detects any DU 303.1 connected to the network. Depending on the STRIDE Server configuration the DU 303.1 can be combined with other STRIDE detection units, resulting in a higher sensitivity and source tracking abilities. These programs must be purchased separately.



## 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
- RJ-45 Ethernet connection to LAN with PoE
- Server and Client software packages available

## SPECIFICATIONS

### INPUT/OUTPUT

Ethernet RJ45; POE; 10 Mbit/s; 100 Mbit/s

### PHYSICAL

Dimensions (Dia. × H) Tube 63 mm (2.500") × 911 mm (35.866");  
Foot 373 mm (14.685") × 61 mm (2.402")

Mass Tube 3.1 kg (6.83 lb); Foot 10.0 kg (22.05 lb)

Housing Material Aluminum

Connection Belts Compatible to Tensabarrier and BelTrac

Color Black

### 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

Auto Calibration Yes

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 11 cps/nv

Stabilization LED and <sup>40</sup>K

Measuring Modes PHA

Dose Rate Accuracy  $\pm$ 30 % (50 keV – 1500 keV)

Energy Range (Dose Rate) 50 keV – 1500 keV

### DETECTORS

Gamma NaI; 2 " × 3 "

### STANDARDS

Standards DIN EN 61000-3-2; DIN EN 61000-3-3; DIN EN 61326; DIN EN 1050; DIN EN 55014; DIN EN 6100; DIN EN 60204-1; DIN EN 61321; DIN EN 62244; IEC 62484

### SOFTWARE

Embedded Software Linux

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 303.1-N Wired Stanchion Detection Unit

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

### Sales Europe, Asia, Africa and Oceania

FLIR Radiation GmbH  
Piepersberg 12  
42653 Solingen, Germany  
T + 49 212 222090  
F + 49 212 201045

### Sales North and South America

ICx Radiation Inc.  
100 Midland Road  
Oak Ridge, TN 37830, USA  
T + 1.865.220.8700  
F + 1.865.220.7181



www.flir-radiation.com