



Stride 200

Stationary Radionuclide Identification Systems



STRIDE detection units and systems were designed to detect the covert movement of special nuclear material or weapons into populated or other areas of concern and to identify the radionuclide.

SERIES 200 DETECTION UNITS

The STRIDE Series 200 detection units have been designed primarily for fixed wired installations. The cylinder shaped housing is made of aluminum and is both dust and moisture proof. The size of the housing depends on the size of the NaI scintillation detector chosen and the presence of an optional He³ neutron detector with moderator. These units can be mounted on walls, above doorways, behind reception desks, behind passport control counters, above luggage or parcel conveyer belts, and much more. 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 to 20 or 30 seconds, depending on the nuclide, the source activity, background conditions and the presence or absence of shielding material.



- Rapid detection of presence of radioactivity or radioactive material
 - Nuclide identification
 - Categorizes radiation as Innocent, Suspicious or Threat
 - Alarms on doserate changes above background
 - Continually stabilizes for temperature and background changes
 - RJ-45 Ethernet connection to LAN with PoE
 - Server and Client software packages available
 - Visible and audible alarm annunciators
 - Permanent event record storage
 - Remote alerts to PCs, PDAs and the like
- Open or covert installations

SPECIFICATIONS

Gamma Detector	NaI(Tl) 2" x 3" or NaI(Tl) 2" x 4"
γ Energy Range	20 keV to 3 MeV
Energy Resolution	< 8% FWHM @ 662 keV
Neutron Detector	He ³ Gas filled ionization neutron detector with 10 mm thick PE moderator (opt.)
He ³ Detector	0.75" x 3", 8 atm pressure
Neutron Sensitivity	per IAEA specifications for Border Monitoring Equip.
Neutron Energy	0.025 eV to 15 MeV
High Doserate	Sealed GM detector (opt.)
Operating Temperature	+5°F to +122°F (-15°C to +50°C)
Storage Temperature	-40°F to +203°F (-40°C to +95°C)
Operating Humidity	10 - 80%, non-condensing
Data Throughput	>100k cps
Data Input Rate	≤ 300k cps
Corrections	Spectrum linearization
Spectrum	1024 channels 24 bits per channel
Calibration Verification	Internal K ⁴⁰ (KCl) source
Doserate Range	0 to 100 μ Sv/h (0 to 10 mrem/h)
Doserate Resolution	10 nSv/h (1 μ rem/h)
Doserate Energy	50 keV to 1.5 MeV
Stabilization	Peak analyzing K ⁴⁰ or LED
Power	DC, Power over Ethernet
Dimensions	16.75" x 2.6" (425 x 65 mm), NaI(Tl) only
Weight	4 lbs (1.8 kg)
Material	Aluminum
Protection Rating	IP 54

DETECTION UNIT MODELS

- DU 203-Nd: 2" x 3" NaI detector, K⁴⁰ source stabilization
- DU 203-N: 2" x 3" NaI detector, LED stabilization
- DU 203-NH: 2" x 3" NaI detector, LED stabilization, He³ neutron detector
- DU 203-NGH: 2" x 3" NaI detector, LED stabilization, GM high doserate detector
- DU 204-Nd: 2" x 4" NaI detector, K⁴⁰ source stabilization
- DU 204-N: 2" x 4" NaI detector, LED stabilization
- DU 204-NH: 2" x 4" NaI detector, LED stabilization, He³ neutron detector
- DU 204-NGH: 2" x 4" NaI detector, LED stabilization, He³ neutron detector, GM high doserate detector

