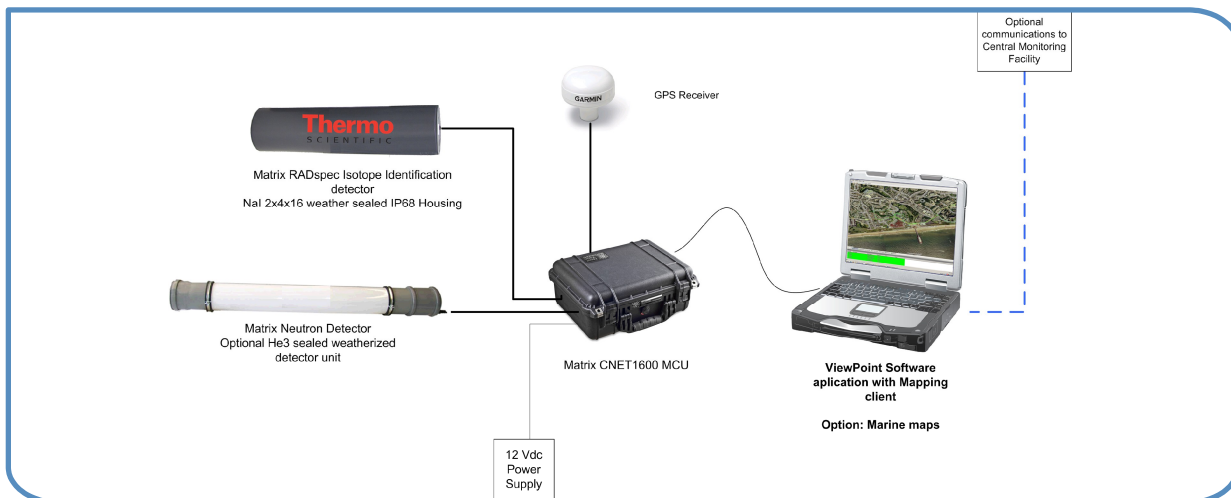


Matrix Radspec – Portable Maritime System

Basic Architecture



RADspec Detector Specification

Gamma Detector	2x4x16 NaI
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.)
He₃ Detector	0.75" x 3", 8 atm pressure Neutron Sensitivity per IAEA specifications for Border Monitoring Equipment .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
Corrections	Spectrum linearization
Spectrum	1024 channels
Calibration Verification	Internal K ₄₀ (KCl) source
Doserate Range	0 to 100 μSv/h (0 to 10 mrem/h)
Doserate Energy	50 keV to 1.5 MeV
Doserate Resolution	10 nSv/h (1 μrem/h)
Stabilization Peak analyzing	K ₄₀ or LED
Power	DC, Power over Ethernet
Dimensions	16.75" x 2.6" (425 x 65 mm), NaI only; (36" x 9" detector housing)
Weight	50 lbs
Material	PVC
Protection Rating	IP 68

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