

RADEAGLE-Cx DETECTION UNIT

The RADEAGLE-Cx detector unit was developed for mobile measurement tasks and is used in mobile portals, measurement vehicles, measurement helicopters and backpack solutions.

INTERFACES

The RADEAGLE-Cx deployment and operation is as easy as possible. RE-Cx provides an continuous MQTT data stream that is compatible the Industrial Internet of Things (IIoT) system concepts. It can be therefore be either integrated in large scale solutions or used as standalone unit. A REST interface additionally allows to send commands to the detector and receive data.

NUCLIDE IDENTIFICATION

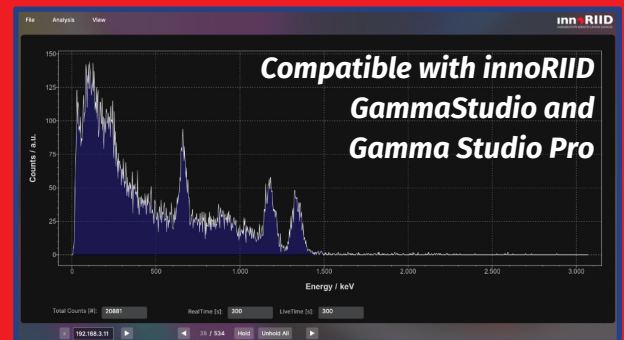
RADEAGLE-Cx applies the same ANSI tested nuclide identification code that is used along the whole RADEAGLE family.

TECHNICAL DATA

DETECTOR	
Gamma:Nal:TI Different variants	Crystal sizes: 5.08cm x 10.16cm x 20.32cm (2"x4"x8") Crystal sizes: 5.08cm x 10.16cm x 25.4cm (2"x4"x10")
Resolution at 661.65keV	7.5%
GPS (optional)	64 Kanäle
RADIOLOGIC AND SPECTROSCOPIC PROPERTIES	
Multi-Channel Analyzer (MCA)	Digital MCA, 2048 channels
Energy Range	15keV - 3072keV, 1.5keV / channel
Dose rate measurement range (Nal:TI only)	0.01µSv/h - 50µSv/h
Dose rate measurement range extension	Optional GM-tube
PHYSICAL PROPERTIES	
Geometry of the housing (Aluminum) (Width x Thickness x Height)	55cm x 20cm x 10cm (ca. 11l) compact edition
Weight (1x Gamma detector 5.08cm x 10.16cm x 20.32cm)	Est. 10.10 kg
IP Designation	IP65
ENVIRONMENTAL CONDITIONS	
Temperature Range	-40°C to +55°C
Humidity	up to 90%
BATTERY / POWER	
Autonomous runtime with optional battery	> 12h
Time until full charge	< 2h
Operational power	Power supply: 100V - 240V, 50Hz-60Hz Car adapter with 12V
INTERFACES	
REST	HTTP Request
MQTT	Continuous data stream
Database	Included on detector
STANDARDS	
ANSI N42.35	Compliant with ANSI N42.35



Robust mounting points for positioning the unit in different situations and geometries



SOFTWARE

Beneath its own interface, each RADEAGLE-Cx unit can also be connected directly to the innoRIID analysis software GammaStudio. Spectra can then be measured and evaluated live.

NUCLIDE LIBRARY

Am-241, Ba-133, Beta+, Bi-207, Cd-109, Cs-134, Cs-137, Co-57, Co-60, Cr-51, Eu-152, Ga-67, Ga-68, I-123, I-125, I-131, In-111, Ir-192, Ir-192+DU, K-40, Mn-54, Mo-99, Na-22, Ra-226, Se-75, Sr-90, Tc-99m, Th-232, Tl-201, Xe-131m, Xe-133, Xe-133m, Xe-135, Lu-176, Lu-177m, Zr-95, Sb-125, Te-132, Nb-95, I-132, Ac-228, Ba-140, Eu-155, Nd-147, Cd-115, Cd-115m, Ru-103, Pr-144, La-140, Ce-141

SNM: U-232, U-233, U-235, U-238, Pu-238, Pu-239 (inkl. Pu-241) as WGPu and RGPu, Cf-252, Np-237

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