SPECIFICATION

PORTAL Dp

Deployable Modular Radiation Screening System for Pedestrians

PORTAL Dp is a mobile modular radiation monitoring system developed in accordance with the FEMA-REP-21 standard. Thanks to its lightweight construction and quick assembly, it can be deployed immediately at events with high concentrations of people, at borders, and at nuclear facilities.
The system combines high detection sensitivity, operational flexibility, and a durable design that facilitates decontamination. User-friendly controls and the ability to configure it according to customer needs make it a versatile solution for a wide range of security tasks.

Benefits

- Complete turnkey solution for a wide range of emergency and security tasks.
- Lightweight aluminum construction for easy handling and quick assembly.
- Quick operational deployment in the field.
- Modular architecture adaptable to different uses and detector configurations.
- Easy and complete decontamination thanks to the special surface treatment of the detector modules.
- Power supply from multiple independent sources (mains, batteries, car batteries, mobile generator).
- Option to add an additional neutron detector.

Key figures

50 keV - 3 MeV
Gamma energy range

37 kBq
Detection threshold for Cs-137 at 662 keV

8h
Independent battery operation

V202603

Product description

The main structure of the PORTAL Dp system consists of a durable frame made of lightweight, precisely shaped aluminum beams, which allow for quick assembly and adaptation of the portal monitor to a specific task. The system comes standard with two highly sensitive 5-liter plastic scintillation detectors housed in waterproof and dustproof boxes with a special surface treatment that allows for easy decontamination. The size, type, and number of detectors can be customized according to user requirements.

The detection units are connected to a control unit, which serves as the central electronics, power supply, and backup battery, and also allows connection to a PC and control software. The control unit provides up to 8 hours of independent operation, and the system can alternatively be powered from a 230/110 V AC mains supply, a car, or a mobile gas or diesel generator.

PORTAL Dp is supplied as a complete kit containing all the necessary components and cabling, with the option of adding optional accessories such as a motion sensor, rain cover, protocol and sticker printer, LED work lighting, or an external power supply.
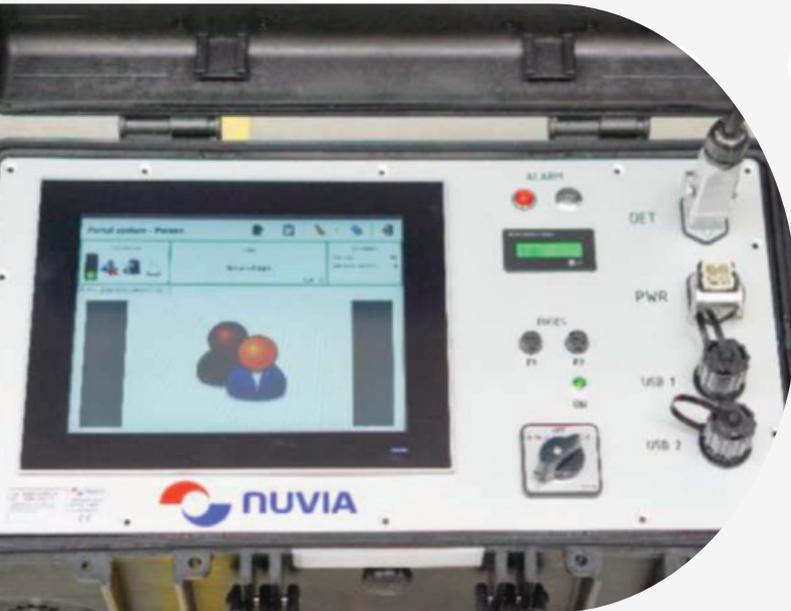
Specification

Power supply	Diesel generator, 230 (110) V/50 (60) Hz, lithium accumulators
Detectors	By default two 5 litre plastic scintillation detectors
Gamma energy range	50 keV to 3 MeV
Dimensions	1150 x 1300 x 2100 mm
Alarms	Acoustic and visual
Control unit	Box with electronics for power supply management, connection of detectors and in-built PC with a SW application and other functions.
Detection threshold	37 kBq for Cs-137 at 662 keV for each detector and a source at a distance of 0.5 m from the middle of the total length of the detector.
Operating temperature	From -10°C to +50°C
Software	PortIS package for data processing and system setting

Product application

- Immediate support in crisis situations – ideal for interventions during terrorist attacks or incidents at nuclear facilities, where reliable radiation screening must be provided quickly.
- Ensuring safety at mass events – suitable for temporary events, gatherings, and events with a high concentration of people, where effective control of people's movements is needed.
- Protection against the illegal transport of radioactive materials – designed for airports, industrial facilities, buildings, and scrap yards, where it enables rapid identification of risk sources.

Portal Management SW NuSOFT PortIS

- Processing signals from all connected sensors.
- Analysis and evaluation of measured data.
- Complete configuration of the system and its operating parameters.
- Automatic monitoring of the system's operating status.
- Management of visual and acoustic alarm indicators.
- Entering identification data for measured objects.
- Displaying measured results in real time.
- Generation of reports on events, alarm states, and operating information.