

## VECTOR MULTIFUNCTIONAL PORTABLE STATION FOR RADIOLOGICAL CONTROL AND MONITORING



### Areas of Application

The portable station is to be used for search, localization, and rapid identification of radioactive and nuclear materials

### Specification

Energy range	From 50 keV to 3.0 MeV
Maximum input load, pulse/s	46 000
Measurement time, s	20–60
Volume activity, Bq/l	7 (Cs-137), measurement time up to 5 min
Surface contamination density, mCi /m	0.01
Measured radionuclides	K-40, Cs-137, Cs-134, Ra-226, Th-232, Am-241 and others
Maximum equivalent dose rate, Sv/year	≤10
Maximum equivalent dose, Sv/year	≤15
Weight, kg	≤5
Power supply	
from mains, V	220
from battery, hours	≥16

### Advantages

Portability, rapid display of results and download of measurement data to the computer for radioactive contamination mapping

### Stage of Development. Suggestions for Commercialization

IRL8, TRL9  
 Production sample. Sale of equipment. Upon request, the device is manufactured, set, and tested; staff training and maintenance during warranty period are provided; a technological framework for manufacturing model is created; the sample and serial production model are finalized; production process and solutions are optimized and customized to the key sales markets

### IPR Protection

IPR1

### Contact Information

Yuri L. Zabulonov, Institute of Environmental Geochemistry of the NAS of Ukraine; +38 044 502 12 26, +38 044 502 12 23, e-mail: 1952zyl@gmail.com