

PLACES OF APPLICATION

- Waste processing plants
- Metal processors
- Nuclear facilities
- Logistics centers
- Protected facilities
- Checkpoints
- Ports

OBJECTS OF INSPECTION

- Road vehicles and cargoes
- Railway carriages
- Containers
- Packages



The BNS-94H+ Radiation Portal Monitor family was developed by Gamma Technical Corporation to serve as highly effective devices for the reconnaissance of natural and artificial radiation sources. The detectors of the system are intelligent scintillation probes with high sensitivity to gamma radiation. A patented measurement method assures background, shielding and speed compensation in each probe. The alarm unit of the system receives data from the detector units in every half seconds and calculates the actual deviation from the average background level. If the difference exceeds the preset value, the alarm goes off and the event gets registered into a log file.

Technical parameters

<p><b>Radiation detector</b> NaI(Tl) crystal detector with built-in high voltage power supply and lead collimator</p> <p><b>Gamma energy range</b> 25 keV ... 2.5 MeV</p> <p><b>Sampling time</b> 0.5 s</p>	<p><b>Measurement time</b> 0.5 ... 9.5 s</p> <p><b>Alarm threshold</b> automatic</p> <ul style="list-style-type: none"><li>- background compensation</li><li>- speed compensation</li><li>- vehicle shielding effect compensation</li></ul> <p><b>Alarm threshold for gamma radiation</b> 1.02 ... 2.3 times the actual background level</p>	<p><b>Angle of detection</b> horizontally <math>\pm 30^\circ</math> vertically <math>\pm 30^\circ</math></p> <p><b>Construction</b> airtight, rugged, stainless steel detector units for outdoor applications</p> <p><b>Temperature range</b> -25°C ... +50°C</p>
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