

# Getting Ahead



Civil, Military, Police and  
First Responder Solutions



**ID Force**  
International

# PRORAD 1000

## HAND-HELD COMBINED METAL AND GAMMA RADIATION DETECTOR



The device is designed for simultaneous (with the help of one device) inspection, search, detection and localization of sources of ionizing radiation and metal objects by one man in manual mode.

### **Advantages of working with the device:**

- possibility of simultaneous detection and localization of sources of ionizing radiation and metal objects;
- high speed and accuracy of detection and localization of radioactive and nuclear materials;
- shockproof housing;
- ability to work in wide range of ambient temperatures, particularly when working in the field;
- low power consumption;
- possibility of full-fledged operation in any magnetic fields without special modifications;
- detection of both magnetic and non-magnetic metals;
- optical, acoustic and vibration alarm;
- automatic calibration.

## Technical Specifications

### Modes of operation:

- detection and localization of sources of ionizing radiation and metal objects.

- Device registers gamma radiation in the energy range from 30 keV to 1.5 MeV

- Detection time by the device when the threshold level is exceeded (with a background radiation of no more than 0.25  $\mu\text{Sv} / \text{h}$ ), no more than .... 2 Seconds

- Frequency of false positives in the mode of gamma-radiation detection with a radiation background is not more than 0.25  $\mu\text{Sv} / \text{h}$  No more than one actuation per 10 minutes of continuous operation\*

- Device provides simultaneous detection of metal objects (with radioactive materials) at a distance between the working surface of the device and the plane of the metal object:

A subject of detection	Maximum detection distance, мм
• Knife	150 ( $\pm 10$ )
• Pistol	200 ( $\pm 10$ )
• Plate (magnetic steel) 100x100 мм	200 ( $\pm 20$ )
• Container of radioactive materials	200 ( $\pm 20$ )

- Scanning speed above the surface of the object from 0,1 to 0,5 м/sec.

- Device provides its technical characteristics immediately after switching on.

- Sensitivity parameters correspond to possibility of detecting special model radiation sources in category III H20 $\gamma$  0.1 g of plutonium or 3g of uranium at a distance of  $20 \pm 0.5$  cm.

- Ingress protection IP65

- Supply Voltage 9 V (battery type 6F22)

- Time of continuous operation of the device from one battery under normal operating conditions when using an audible alarm no more than 20 min / day, not less than. 500 hrs

- Weight, including battery, max. 0.4 kg.

- Dimensions 420 x 85 x 45mm



# Security Applications



**Transportation Hubs**



**Critical Infrastructure**



**Public Events**



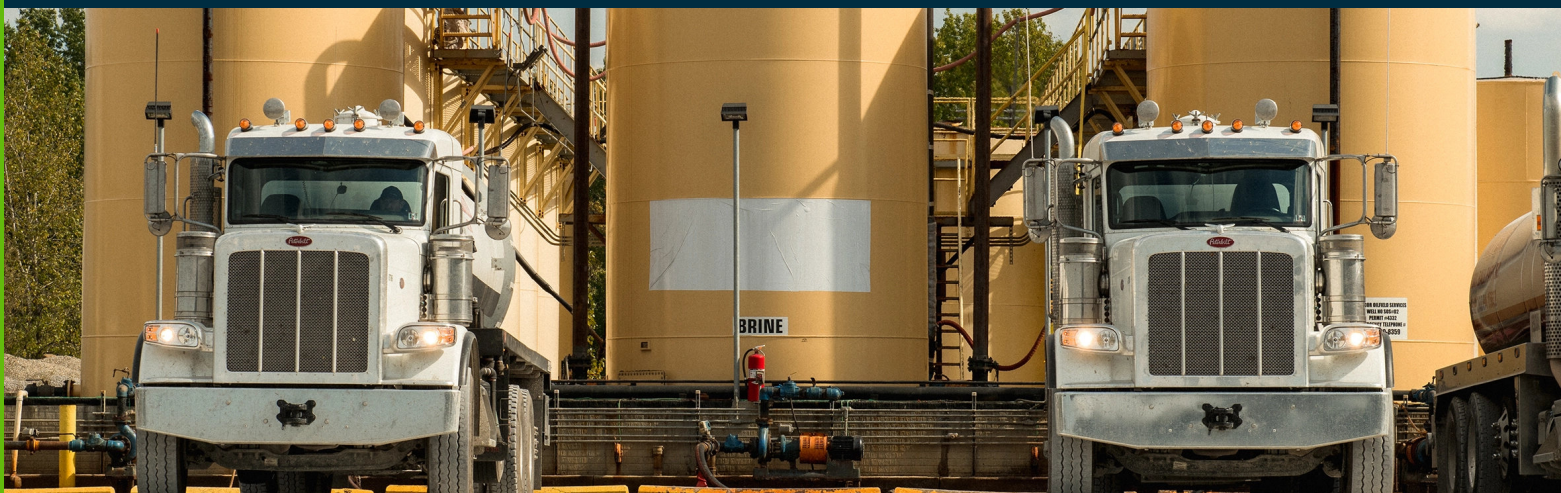
**Border & Customs**



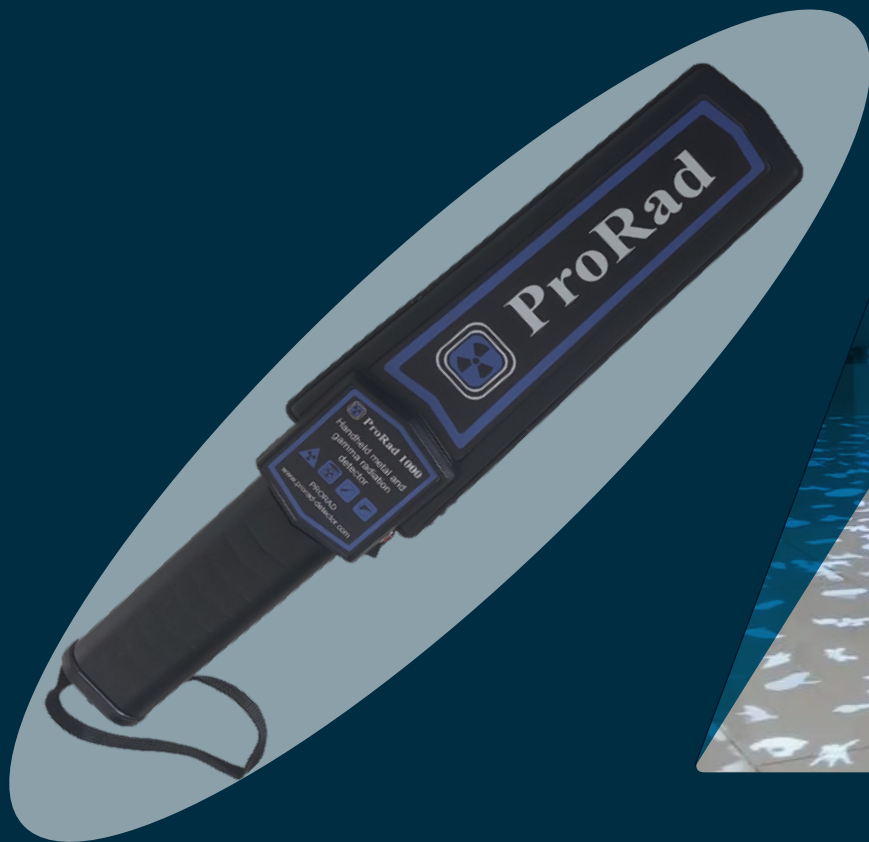
**Access Control**



**Nuclear Plants**



# Get in Touch



Contact [info@idforce.io](mailto:info@idforce.io)



ID Force International Pty Ltd  
Suite 705, 11 Railway Street  
Chatswood NSW 2067 Sydney,  
Australia