

# RadEye PRD-ER



Item # 425067122



The RadEye PRD-ER Personal Radiation Detector is an advanced pocket-size instrument that detects and localizes radiation sources generated by man-made devices such as nuclear weapons, improvised nuclear devices (IND) or radiological dispersal devices (RDDs). Single detector arrangement offers the following unique advantages over the whole measuring range:

- Consistent angular dependence.
- No mutual shielding of neighbored detectors.
- Consistent energy response.
- No transition range with annoying hysteresis effects.
- No high-activity source for function test of high dose rate detector required.
- Menu-driven with an intuitive, easy-to-use format.
- Patented Natural Background Rejection (NBR) technology provides high sensitivity with high selectivity; eliminates nuisance alarming due to naturally recurring radiation sources (such as granite).
- Low-power-technology components and fully automated self-checks result in minimum maintenance.
- Equipped with large clear graphic display and audible/visible/vibrating alarms; earphone-output for silent alarming.

Gamma Source Detection	★★★
Wide Measuring Range	★★★
Gamma Dose Rate	★★
X-Ray Detection	★★
Neutron Source Detection	(★)

## Lutetium Test Adapter for PRD and PRD-ER

To “challenge” the radiation detector’s functionality of the RadEye PRD and RadEye PRD-ER, Thermo Fisher Scientific has developed an innovative test adapter based on high purity natural Lutetium-Oxide.

Test adapter kit for RadEye PRD and PRD-ER  
Carrying case and HV-adjustment software



Gamma test adapter containing 36 g Lu<sub>2</sub>O<sub>3</sub> for RadEye PRD and RadEye PRD-ER.  
Net count rate approximately 100 cps.  
Item # 425067071

The design of a special shape enclosure and the use of high Density Lu<sub>2</sub>O<sub>3</sub> ceramics minimizes the required activity for the RadEye PRD and PRD-ER.

## Technical data of RadEye PRD-ER (deviating from RadEye PRD specifications)

Measuring Range	1 µrem/h - 10 rem/h (0.01 µSv/h – 100 mSv/h)
Overrange Indication	10,000 rem/h (100 Sv/h)
Linearity error (Cs-137)	max. ± 20 %

