

# RadFox

Combined Radioactivity and Metal Detector  
More Security by Intelligent Solutions !!

## *The Task*

The increasing extent of threat to industrial nations during the last years by terroristic attacks, amongst others by extreme Islamist fundamentalists, led to more tighten security controls, for example on airports.

In order to cover the **threat of radioactivity** with the standard passenger's screening with metal detectors simultaneously, Vallon developed the combined radioactivity and metal detector **RadFox**.

## *Functions / Capability Profile*

- Supersensitive radioactivity detector integrated into the housing of the metal detector
- Simultaneous measuring and screening of persons or goods to detect metal objects and radioactive material
- Detection of both components by scanning in real time
- Ease of operation and highly sensitive detection within a short time
- Intelligent measuring electronics with independent evaluation of the signals received from the radioactivity detector and the metal detector. Different clearly distinguishable alarm signals.
- Automatic adaption of the radioactivity detector to changing environment
- Adjustable sensitivity steps



## *Technical Data*

- Supersensitive CsI-szintillation detector with photo multiplier  
Detector crystal approx. 20 x 20 mm, detection of  $\gamma$ -radiation > 25 keV  
Detection of  $\beta$ -radiation > 200 keV (medium  $\beta$ -energy)  
Physical proof sensitivity 30 kBq Cs-137 in 2 s with a scanning speed of 20 cm/s
- Well proven metal detector (type MH6) to detect smallest metal objects
- Weight (with battery): approx. 400 g

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