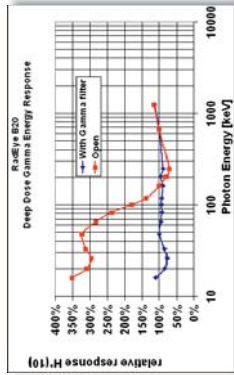


RadEye B20 / RadEye B20-ER Excellence

RadEye	B20	B20-ER
Gamma Dose Rate (with filter)	★★★★	★★★★
Beta Contamination	★★★★	★★★★
X-Ray Measurement	★★★★	★★★★
Wide Range	★★	★★★★
Beta Dose rate	★★	★★★★
Alpha Contamination	★	★

The RadEye B20 is a modern compact multi-purpose contamination meter for alpha, beta, gamma and X-ray radiation. By virtue of optional gamma energy filters, deep or shallow dose rate measurements from 17 – 1300 keV can be performed. For emergency response purposes alpha and beta contamination can be discriminated using another optional filter. The instrument is part of the growing RadEye family of high-end stand-alone meters, which are designed to exceed the most demanding user expectations.



Features of RadEye B20

- Light Weight (300 g), excellent grip with and without gloves
- Rugged and compact design, thick rubber protective cover
- Low cost of ownership with > 500 h operation time with 2 AAA batteries – rechargeable NiMH-cells can be used
- Menu-driven user interface results in low training cost and immediate familiarity
- Huge internal data memory for both scaler results and continuous data recording
- Bright backlit LCD display – plain text messages - different languages can be selected
- Easy adaptation to different tasks by supervisorcon: figuration, calibration, selection of measuring units
- Versatile operation modes:
 - Scaler / Timer with preset count and preset time for sample measurements
 - Continuous ratemeter mode for frisker operation
 - Dose rate mode
- Audible indication: single pulse or chirper mode proportional to count rate
- Earphone output for operation in loud environment
- A table of up to 15 nuclides can be loaded for display in Bq or dpm

Main Applications	Civil Defence, Fire Brigades, Hospitals, Nuclear Industry, Pharmaceutical Industry
Detector	1 pancake GM-tube, window, dia. 44 mm (1.7”), 1.8 – 2.0 mg/cm ²
Measuring Range (gamma dose rate) (ref. to 50 mm diameter without rubber sleeve)	0 - 2 mSv/h (0 - 200 mrem/h) RadEye B20 0 - 100 mSv/h (0 - 10 rem/h) RadEye B20-ER
Measuring Range (contamination)	0 - 10 kcps RadEye B20 0 - 500 kcps RadEye B20-ER
2 π Efficiency	Am-241: 28%; Co-60: 25%; Sr/Y-90: 36%; C-14: 19 %
Energy Range (with gamma energy filter)	17 keV – 1.3 MeV according to H*(10) or H*(0.7)
Weight and maximum dimensions	300 g (0.7 lb), 13 cm x 7 cm x 6 cm (5.2” x 2.8” x 2.4”)
Alarm indication	LED, sound, vibrator

Accessories B20

Beta/gamma test-adaptor for RadEye B20 and B20-ER (9 g Lu₂O₃):

Order number: 425068571

Typical net count rate for RadEye B20: 6 cps

For additional information please see page 161



Energy Filters

- Removable energy filter for directional dose equivalent H*(0.07) (shallow dose) from 20 keV. Order number: 425068583
- Removable energy filter for ambient dose equivalent H*(10) (deep dose) in Sv/h or rem/h from 17 keV. Order number: 425068582
- Removable alpha-rejection filter for quick estimation of alpha contamination in emergency response situations. Order number: 425068581



First Responder Laboratory Kit

Lab-0, without RadEye. Order number: 425069011



Order number: 42506901001



- Space changer for use with the RadEye B20
- Sample planchets with different lip heights
 - Disposable gloves, spatula
 - 50 mm filters

- Space for:
- RadEye B20
 - Data cable
 - User manual
 - Lutetium-Oxide test adapter
 - Additional RadEye (PRD or N)