ROTEM

IC3 Ion Chamber

Battery-operated ion chamber survey meter for gamma, X-ray and beta dose rate and dose

Portable, battery-operated, auto-ranging ion chamber survey meter for stable and accurate measurement of dose rate and integrated dose from gamma, X-ray and beta radiation. It has a colour display, data logging and USB for calibration, configuration and download, and can be fitted with a built-in radio.



Detector	Measurement range	Weight
Ion chamber, 350 cm³; wall and c over 1,000 mg/cm² (tissue eq uivalent); window 7 mg/cm² My lar [1]	**1 µSv/h – 1 Sv/h (0.1 mR/h – 1 00 R/h)** [1]	**,000 g including batteries** [1]

Specifications

DETECTOR

Detector	Ion chamber, 350 cm³; wall and cover 1,000 mg/cm² (tissue equivalent); window 7 mg/cm² Mylar	[1]

PERFORMANCE

Accuracy	±10% of reading within the measuring range (^{137}Cs)	[2]

MEASURING RANGE

Measurement range	1 µSv/h – 1 Sv/h (0.1 mR/h – 100 R/h)	[1]
Energy response	Beta: better than ±20% from 200 keV	[2]
Angular dependence	Less than ±30% within ±90° of the front direction (^{137}Cs)	[2]
Response time	3 s for readings above 1 mR/h; 5 s for an auto-ranging change from low to high range	[1]

CONNECTIVITY & INTERFACE

Display	Colour TFT, 3 digits with auto-ranging units	[1]
Data storage	200 data records	[1]
Communication	USB for calibration, configuration, firmware upgrade and stored data points; optional internal 900 MHz or 2.4 GHz radio	[1]

POWER & BATTERY

Power supply	Four 1.5 V AA batteries, 120 hours of continuous operation	[1]

MECHANICAL

Dimensions	13 × 24 × 14 cm (W × L × H)	[1]
Weight	1,000 g including batteries	[1]

ENVIRONMENT & RATINGS

perating temperature	−10 to +50 °C	[1]

ORDERING & ACCESSORIES

Ordering code	BAK-0245	[1]

Sources

[1] **IC3 Survey Meter technical data sheet**
Rotem Industries · datasheet · TDS p. 2, Technical Data; TDS p. 2, Ordering Information · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2026/01/ICE-Ion-Chamber-09042024.pdf

[2] **IC3 Ion Chamber**
Rotem Industries · product-page · Product page – Technical Information · checked 2026-10-16
https://rotem-radiation.co.il/solution/ic3-ion-chamber/

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.