ELSE NUCLEAR

ARCHIMEDES II WiFi

Contamination monitor for bags with removable detectors

Monitor for fast measurement of the gamma activity of bags with potentially contaminated material, compared with the clearance limits. Two large plastic scintillators slide as close to the bag as possible on an anti-vibration base with scale, and the detectors can be removed and used remotely, battery-powered with data over Wi-Fi. The monitor is on wheels and easy to decontaminate.



Detector type
Two large plastic scintillators 50 × 50 × 5 cm; removable and battery-powered for remote measurements [2]

Energy range
35 keV–2 MeV [2]

Total weight
350 kg [2]

Specifications

DETECTOR

Detector type	Two large plastic scintillators 50 × 50 × 5 cm; removable and battery-powered for remote measurements	[2]
Detector spacing	Adjustable 2–50 cm	[2]

MEASURING RANGE

Energy range	35 keV–2 MeV	[2]

CONNECTIVITY & INTERFACE

Communication	Wi-Fi/Ethernet interface to PC	[2]
Display	Industrial panel PC with 8.4 in LCD touch screen; label printers and barcode reader	[2]

POWER & BATTERY

Power supply	Mains; in remote mode rechargeable batteries in each detector, recharged when the detectors are on the base	[1]

MECHANICAL

Dimensions	Max. 160 × 95 × 110 cm (W × L × H) excluding alarm column	[2]
Total weight	350 kg	[2]

GENERAL

Use	Fast measurement of the gamma activity of bags with potentially contaminated material; compared with the clearance limits	[1]
Lead shielding	1 cm on the external sides	[2]
MDA	200 Bq for ^{60}Co (10 min)	[2]

Scale	Digital scale, max. payload 150 kg	[1]
Results	Activity in Bq, Bq/cm² or Bq/g	[2]

Sources

[1] **ARCHIMEDES II WiFi Contamination Monitor for Tools and Surfaces**
ELSE NUCLEAR · product-page · Product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/archimedes-ii/

[2] **ARCHIMEDES II WiFi Contamination Monitor for Tools and Surfaces (datasheet)**
ELSE NUCLEAR · datasheet · p. 2, Technical Specifications; p. 1 · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2025/05/DAT_ARCHIMEDESII_EN_1.09.pdf

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.