ELSE NUCLEAR

FOOMON

Food monitoring

Portable, fully integrated food monitor for emergency use – screening of I-131, Cs-134 and Cs-137 in food samples in 500 ml Marinelli beakers. The whole system fits in an IP67 case and is set up in less than five minutes.



Detector type	Total weight	IP rating
2 × 2 inch NaI(Tl) [1]	**Approximately 22 kg** [1]	**IP67 during transport with closed lid; IP65 in operating setup** [1]

Specifications

DETECTOR

Detector type	2 × 2 inch NaI(Tl)	[1]
Sample geometry	500 ml Marinelli	[1]
Default radionuclides	I-131, Cs-134, Cs-137	[1]

PERFORMANCE

MDC, 10 min at 100 nSv/h background	Approximately 20 Bq/kg I-131; 30 Bq/kg Cs-134/Cs-137	[1]

MEASURING RANGE

Maximum activity concentration	Approximately 1 MBq/kg	[1]

ELECTRONICS & SIGNAL

Signal processing	SiPM with compact MCA	[1]

MECHANICAL

verall dimensions	51.8 × 30.5 × 44.5 cm	[1]
Total weight	Approximately 22 kg	[1]

ENVIRONMENT & RATINGS

perating temperature	−20 to +50 °C	[1]
IP rating	IP67 during transport with closed lid; IP65 in operating setup	[1]

GENERAL

Lead shielding	10 mm	[1]
Result units	Activity concentration and MDC in Bq/kg	[1]

Sources

[1] FOOMON – Fully integrated food monitor for emergency use (datasheet, rev 2, Nov 2025)
ELSE NUCLEAR · datasheet · p. 2, Technical specifications; p. 1; p. 2 · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2025/11/DAT_FOOMON_EN_1.02.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.