ORTEC

ISO-CART-85

Mobile in-situ waste assay system with Stirling-cooled HPGe

Mobile system for radioactive waste assay by high-resolution gamma spectrometry, including free-release decommissioning waste. An IDM-200-V with a very large HPGe detector and a modular collimator system sits on the ISO-CART-II cart, and the I OPLUS (ISOTOPIC) software reports the result in grams or acti vity. Supplied factory calibrated and ready to go.



Detector type

IDM-200-V: integrated very-large-area HPGe spectrometer, Stirling cooled (no liquid nitrogen) [1]

Relative efficiency

Approx. 50% (the HPGe detector in the I DM-200-V) [2]

Specifications

DETECTOR

Detector type	IDM-200-V: integrated very-large-area HPGe spectrometer, Stirling cooled (no liquid nitrogen)	[1]
Sample geometries	Pipes, cylinders, floors, ceilings, walls, drums, boxes and soils	[1]

PERFORMANCE

Relative efficiency	Approx. 50% (the HPGe detector in the IDM-200-V)	[2]

SOFTWARE & DATA

Software	ISOPLUS (ISOTOPIC) waste assay software; results in grams or activity (Bq or Ci)	[1]

POWER & BATTERY

Battery life	Internal battery powers the cooler and electronics for up to 3 hours or longer; extendable or hot-swappable	[1]

ORDERING & ACCESSORIES

ptions	Bottle counting shield extension ISO-2-IDM-SHD-EXT with six 1-litre bottles (“in-field counting lab”)	[1]
Models	ISO-CART-85-PC (complete, factory calibrated, with laptop) and I O-CART-85-NOPC (without PC or factory calibration)	[1]

GENERAL

Collimator	Modular kit ISO-2-IDM-SHD: three thin-walled 15 mm steel collimators, S n/Cu lined, 2, 4 and 6 in long, plus three 2 in deep lead sectional shields w ith 1 in wall	[1]
Calibration	Factory calibrated with a traceable point source, or user calibration with a single mixed-isotope point source; can be recalibrated at any time without returning to the factory	[1]

Sources

[1] **ISO-CART-85 Mobile Assay System**
ORTEC (AMETEK) · product-page · More Information; Overview; More Information – Modular Collimator · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/systems/waste-assay-systems...

[2] **ISO-CART-85 Mobile Waste Assay System**
RTEC (AMETEK) · datasheet · p. 4, 'IDM-200-V: Germanium Detector' · checked 2026-10-16
https://web.archive.org/web/20231020180000/https://www.ortec-online.com/-/media/ametekortec/brochures/i/iso-...

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.