ORTEC

digiDART

Portable digital MCA

digiDART – portable digital MCA from ORTEC. Spectrum channels: 5 12–16 k.



Compatible detectors

SMART-1 HPGe detectors; other detectors via a Detector Interface Module (DIM) [1]

Spectrum channels

512–16 k [2]

Specifications

DETECTOR

Compatible detectors	SMART-1 HPGe detectors; other detectors via a Detector Interface Module (DIM)	[1]

PERFORMANCE

Maximum throughput	>100,000 cps	[2]

ELECTRONICS & SIGNAL

Spectrum channels	512–16 k	[2]
Digital filter rise time	0.8–20 µs, 0.2 µs steps	[3]

CONNECTIVITY & INTERFACE

Display	240 × 160 pixels, backlit LCD with live spectrum	[2]
Spectrum storage	23 spectra at 16 k; 614 at 512 channels	[1]
Communication	USB	[1]

POWER & BATTERY

Battery life	Up to 14 hours with fully charged Sony NP-F970 and standard ORTEC r esistive-feedback preamplifier	[3]
Power supply	7.2 V lithium-ion camcorder battery with built-in charging	[4]

MECHANICAL

Dimensions	20.32 × 12.7 × 7.62 cm	[3]
Weight	1150 g with battery; 850 g without battery (DIM <240 g)	[2]

ENVIRONMENT & RATINGS

perating temperature	–10 to +60 °C, including LCD	[3]

GENERAL

peration without PC	Acquisition and spectrum display without connected PC	[1]
Activity calculation	Activity and uncertainty for up to 9 user-defined ROIs	[2]

Models

Model	Spectrum channels	Detector compatibility	Display	Operation without PC
DIGIDART-32	Up to 32 k [2]	SMART-1 HPGe; other compatible detectors via DIM [1]	240 × 160 pixels, backlit LCD [2]	Acquisition and spectrum display without connected PC [1]

Model	Activity calculation	Communication	Throughput	Included software
DIGIDART-32	Up to 9 user-defined ROIs [2]	USB [1]	>100,000 processed pulses/s [1]	MAESTRO; DIM not included in base model [1]

Sources

[1] **digiDART High Performance Portable Digital MCA**
RTEC (AMETEK) · product-page · Overview bullet list; Overview bullet list; 'DigiDART Display and Keypad'; feature list; Ordering Information · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/mult...

[2] **digiDART Portable HPGe MCA (brochure 080818, US Letter)**
RTEC (AMETEK) · brochure · p. 6, 'MCA Specifications' - System Conversion Gain; p. 6, 'System Specifications' - Display; p. 6, 'MCA Specifications' · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin...

[3] **digiDART Portable HPGe MCA (brochure 080818, A4)**
RTEC (AMETEK) · brochure · p. 7, 'Electrical and Mechanical' - Battery Life; p. 6, 'Digital Filter Shaping-Time Constants'; p. 7, 'Electrical and Mechanical' · checked 2026-10-16
https://web.archive.org/web/20231020181256/https://www.ortec-online.com/-/media/ametekortec/brochures/d/digi...

[4] **ORTEC digiDART manual**
RTEC (AMETEK) · manual · Manual, section 7.1.1 Electrical and Mechanical · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin...

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.