ORTEC

digiDART-LF

Portable MCA for scintillation detectors

Portable multichannel analyzer for NaI(Tl) and other scintillation detectors. Its built-in display and keypad allow measurements to be monitored without a connected computer.



Detector type
NaI(Tl) and scintillators such as $LaBr_3$ [1]

Spectrum channels
512–2 k, software selectable [1]

Specifications

DETECTOR

Detector type	NaI(Tl) and scintillators such as $LaBr_3$	[1]

PERFORMANCE

Maximum throughput	>100,000 cps	[1]

ELECTRONICS & SIGNAL

Spectrum channels	512–2 k, software selectable	[1]
Digital filter rise time	0.8–20 µs, 0.2 µs steps	[1]

CONNECTIVITY & INTERFACE

Display	240 × 160 pixels, backlit LCD with live spectrum	[1]
Spectrum storage	More than 150 spectra at 2 k channels	[1]
Communication	USB	[1]

POWER & BATTERY

Battery life	Up to 12 hours with a fully charged Sony NP-F960 battery and standard O RTEC resistive-feedback preamplifier	[1]
Power supply	Lithium-ion camcorder battery, Sony NP-F960 (7.2 V, 38.8 Wh); wall-mounted DC supply +12 V DC, <1.25 A (charging circuitry internal)	[1]

MECHANICAL

Dimensions	20.32 × 12.7 × 7.62 cm	[1]
Weight	Less than 900 g (DIM: less than 240 g)	[2]

ENVIRONMENT & RATINGS

perating temperature	–10 to +60 °C, including LCD	[1]

GENERAL

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

Sources

[1] **digiDART-LF Portable "SMART" MCA**
RTEC (AMETEK) · product-page · More Information; Radiation Detector High Voltage Supplies; Specifications tab – System Conversion Gain; Specifications tab – Display · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/mult…

[2] **ORTEC digiDART-LF 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.