ORTEC

DSPEC-Jr. 2.0

Digital gamma spectrometer

Compact digital spectrometer for gamma spectroscopy, with signal processing that can be tuned to the detector and measurement.



Detector type	Spectrum channels	Weight
HPGe; NaI through appropriate DIM [1]	**512–16 k, software selectable** [1]	**.0 kg** [1]

Specifications

DETECTOR

Detector type	HPGe; NaI through appropriate DIM	[1]

PERFORMANCE

Maximum throughput	>100,000 cps without LFR; >34,000 cps with LFR; depends on shaping settings	[1]

ELECTRONICS & SIGNAL

Spectrum channels	512–16 k, software selectable	[1]
Digital filter rise time	0.8–23 µs, 0.2 µs steps	[1]
Flat-top time	0.3–2.4 µs, 0.1 µs steps	[1]

CONNECTIVITY & INTERFACE

Communication	USB	[1]
Display	240 × 160 pixels, backlit LCD for status	[1]

POWER & BATTERY

Power supply	+12 V DC, <1.25 A	[1]

MECHANICAL

Dimensions	8.1 × 20.3 × 24.9 cm (H × W × D)	[1]
Weight	1.0 kg	[1]

ENVIRONMENT & RATINGS

perating temperature	0 to +50 °C, including LCD	[1]

ORDERING & ACCESSORIES

Included software	MAESTRO	[1]

Sources

[1] **DSPEC jr 2.0 – High-Performance, Digital Signal Processing for Gamma-Ray Spectrometry**
RTEC (AMETEK) · brochure · p. 2 benefits; p. 8 Detector High Voltage Supplies; p. 7, Specifications – System Conversion Gain; p. 7 Inputs a nd Outputs; p. 2 · 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.