AMPTEK

MCA-8000D

Portable multichannel analyzer

A standalone, lightweight and low-power MCA for acquiring and analyzing pulse-height data in nuclear and X-ray spectroscopy.



Spectrum channels
256, 512, 1k, 2k, 4k or 8k [2]

Weight
<165 g [2]

Specifications

PERFORMANCE

Minimum pulse peaking time	≥500 ns	[1]

MEASURING RANGE

Pulse-height range	0–1 V or 0–10 V	[1]

ELECTRONICS & SIGNAL

Spectrum channels	256, 512, 1k, 2k, 4k or 8k	[2]
Input signal	Externally shaped positive pulses; no built-in pulse shaping	[2]

CONNECTIVITY & INTERFACE

Communication	USB 2.0, RS-232, Ethernet	[1]
Display and analysis	DPPMCA on computer	[1]

POWER & BATTERY

Power supply	USB or included mains adapter; no internal battery	[2]
Power consumption	2 W	[2]

MECHANICAL

Dimensions	125 × 71 × 20 mm	[2]
Weight	<165 g	[2]

ENVIRONMENT & RATINGS

perating temperature	−20 to +60 °C	[2]

GENERAL

Acquisition modes	MCA and MCS	[1]

Sources

[1] MCA-8000D Digital Multichannel Analyzer – specifications
Amptek · datasheet · p. 2; p. 1; p. 4 · checked 2026-10-16
https://www.amptek.com/-/media/ametekamptek/documents/resources/products/specs/mca-8000d-digital-multichanne...

[2] MCA-8000D Digital Multichannel Analyzer
Amptek · product-page · product page · checked 2026-10-16
https://www.amptek.com/products/multichannel-analyzers/mca-8000d-digital-multichannel-analyzer

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.