BRIGHTSPEC

Topaz-Pico

Pocket-size stand-alone digital MCA for scintillation detectors

Compact, stand-alone digital multichannel analyser in a rugged pocket-size aluminium box, for scintillation detectors with a photomultiplier. Its low power consumption makes it suitable for portable radiation monitoring, and the circuit board is available separately to OEM customers.



Spectrum channels
Up to 4,096 [2]

Weight
Less than 150 g (including box) [1]

Specifications

DETECTOR

Compatible detectors	Scintillation detectors with a photomultiplier, e.g. NaI(Tl), $LaBr_3$(Ce) and $LaCl_3$(Ce)	[1]

ELECTRONICS & SIGNAL

Spectrum channels	Up to 4,096	[2]
Gain	×1–×16	[2]
Detector high voltage	Built-in, 0 to +1,500 V in 4,096 steps	[1]
Digital filter rise time	0.1–12 µs in 0.2 µs steps; flat top 0.1–8.0 µs in 0.1 µs steps (trapezoidal shaper)	[1]

CONNECTIVITY & INTERFACE

Communication	USB 2.0 (cable included)	[1]

MECHANICAL

Dimensions	Box 107 × 72 × 19 mm; PCB 80 × 60 mm	[2]
Weight	Less than 150 g (including box)	[1]

ORDERING & ACCESSORIES

ptions	Extra input for TTL pulses, e.g. from a neutron counter	[1]

GENERAL

Acquisition modes	PHA (pulse height analysis) and MCS (multichannel scaling)	[2]

Sources

[1] **Topaz-Pico technical specifications (V1.0)**
BrightSpec · datasheet · p. 1, Introduction; p. 2, Technical Specifications; p. 1, Description · checked 2026-10-16
https://www.brightspec.be/brightspec/downloads/Topaz_Pico_Spec_V1.0.pdf

[2] Topaz-Pico
BrightSpec · product-page · Product page – Main features · checked 2026-10-16
https://www.brightspec.be/brightspec/?q=node/24

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.