LUDLUM

Ludlum Model 733

PC-based gamma MCA system

USB-powered gamma spectroscopy system with a NaI(Tl) detector, MCA and SAAS software. Computer not included.



Part number	NaI(Tl) crystal (Ø × L)	Spectrum channels
48-3835 [1]	**7.6 × 7.6 cm** [1]	**1024** [1]

Specifications

ELECTRONICS & SIGNAL

Spectrum channels	1024	[1]
ADC	10-bit Wilkinson	[1]
ADC clock	48 MHz	[1]
ADC conversion at full scale	20 µs	[1]
Internal detector high voltage	0–1200 V DC; 0.5 mA; ripple <30 mV	[1]
Pulse shaping	1 µs, semi-Gaussian, internal pole-zero adjustment	[1]

CONNECTIVITY & INTERFACE

Communication	USB; ANSI N42 export	[1]

POWER & BATTERY

USB power	Approximately 4.75 V at 450 mA	[1]

MECHANICAL

NaI(Tl) crystal (Ø × L)	7.6 × 7.6 cm	[1]
USB cable length	5 m	[1]
Dimensions	Detector: 8.3 × 24.1 cm (D × L); overall with MCA: 8.3 × 34.9 cm (D × L)	[2]
Weight	1.8 kg	[2]

ORDERING & ACCESSORIES

Part number	48-3835	[1]
Included software	SAAS	[1]

Sources

[1] Model 732 & 733 PC-Based Gamma MCA System
Ludlum Measurements · datasheet · p. 1 (part numbers) and p. 2 detector specifications; p. 2, Detector Specifications; p. 2, MCA Specifications · checked 2026-10-16
https://ludlums.com/images/data_sheets/M732_M733.pdf

[2] Ludlum Model 733
Ludlum Measurements · product-page · Product page – Specifications, Detector; Specifications – Weight · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-733

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.