BRIGHTSPEC

bSCAN

Radio-TLC scanner with NaI(Tl) detector and built-in MCA

Compact instrument for thin-layer radio-chromatography (radio-TLC), an established method for fast quality control of radiopharmaceuticals in nuclear medicine laboratories. A lead-shielded NaI(Tl) detector with exchangeable collimators is moved across the chromatogram strip, and the built-in MCA also provides an energy spectrum with nuclide identification, so that both radiochemical and radionuclidic purity can be analysed with one instrument.



Detector type	Spectrum channels	Weight
NaI(Tl), typically 1 × 1 in (2.54 × .54 cm) [2]	**Up to 4,096 (PHA and MCS)** [2]	**16.5 kg (36.4 lb)** [2]

Specifications

DETECTOR		
Detector type	NaI(Tl), typically 1 × 1 in (2.54 × 2.54 cm)	[2]
Scan area	Strips up to 50 × 220 mm	[2]
ELECTRONICS & SIGNAL		
Spectrum channels	Up to 4,096 (PHA and MCS)	[2]
CONNECTIVITY & INTERFACE		
Communication	USB 2.0	[2]
POWER & BATTERY		
Supply voltage	External AC/DC adapter for 120–220 V (supplied)	[2]
MECHANICAL		
Dimensions	38 × 35 × 25 cm (W × H × D)	[1]
Weight	16.5 kg (36.4 lb)	[2]
ENVIRONMENT & RATINGS		
Listed operating system	Windows 7, 8 and 10 (32 and 64-bit)	[2]
GENERAL		
Functions	Radio-TLC: radiochemical and radionuclidic purity; energy spectrum with automatic nuclide identification	[1]
Collimators	Two exchangeable, with 1 mm and 3 mm aperture	[2]
Lead shielding	10 mm lead (Pb) at the thinnest parts	[2]
Scan speed	Automatic 0.1–2 cm/s; approx. 0.5 cm/s in manual mode	[2]

Sources

[1] bSCAN
BrightSpec · product-page · Product page – Main features · checked 2026-10-16
https://www.brightspec.be/brightspec/?q=node/25

[2] bSCAN technical specifications (V1.2)
BrightSpec · datasheet · p. 2, Detector; p. 3, Technical Specifications – standard packing contents; p. 2, MCA · checked 2026-10-16
https://www.brightspec.be/brightspec/downloads/bSCAN_Spec_V1.2.pdf

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.