SCIONIX

127A127/5M

127 x 127 mm NaI(Tl) detector with demountable photomultiplier tube

A-style detector whose 127 mm photomultiplier tube is demountable: a failed tube can be replaced by the user without taking the crystal assembly apart. Scionix uses this style for complex detectors such as anti-Compton shields and large whole-body counters.



Crystal dimensions
Ø 127 x 127 mm (diameter x height) [1]

Light sensor
Demountable photomultiplier tube, 127 mm (5 in.) [2]

Specifications

DETECTOR

Scintillator	NaI(Tl)	[1]
Light sensor	Demountable photomultiplier tube, 127 mm (5 in.)	[2]

MECHANICAL

Crystal dimensions	Ø 127 x 127 mm (diameter x height)	[1]
Detector housing	Silver anodised aluminium (standard)	[3]

GENERAL

Format	Demountable (A style): a failed tube can be replaced by the user without taking the crystal assembly apart	[2]
Use	Complex detectors such as anti-Compton shields and large whole-body counters	[2]
Magnetic shielding	External solid μ-metal shield (M in the type number)	[3]
PMT base	14-pin JEDEC B14-38 socket, standard for detectors supplied without voltage divider	[4]
HV polarity	Positive high voltage (standard); -NEG in the type number means negative	[4]

Sources

[1] **Tutorial of SCIONIX scintillation detectors (2018)**
Scionix · manual · pp. 37 and 57; pp. 36–57 (type number) · checked 2026-11-26
https://scionix.nl/wp-content/uploads/2022/09/Tutorial-of-SCIONIX-scintillation-detectors-2018-3-.pdf

[2] **Examples of standard detector configurations**
Scionix · product-page · Assemblies with demountable photomultiplier tubes: A-styles · checked 2026-11-26
https://scionix.nl/standard/

[3] **Nomenclature & Type numbering**
Scionix · product-page · 7. Electronics/ features of PMT; Standard “off the shelf” detectors · checked 2026-11-26
https://scionix.nl/nomenclature-type-numbering/

[4] Detector electronics
Scionix · product-page · Plug-on or integrated?; Positive or Negative High Voltage? · checked 2026-11-26
https://scionix.nl/voltage-dividers/

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.