

NaI SCINTILLATION DETECTOR
(Size 1"x1" Flat Type)
TYPE : SD 151

Technical Data



FEATURES :

- 1"x1" NaI Integral assembly
- Resolution for Cs-137 better than 8.5%
- Operating Voltage 700V to 900V
- Recommended for use with NUCLEONIX make Gamma Ray Spectrometers
- Ideal choice for teaching lab experiments in Universities & P.G colleges in Physics.

NUCLEONIX **Scintillation Detector (1"x1" - Flat Type) SD151** is designed to be used with Gamma Ray Spectrometer (Integral) Type GR612 or modular system Type GR611M or its equivalent unit.

The integral assembly consists of NaI (TI) crystal size 1"x1", integrally coupled to a 1 1/2 inch bialkali phototube with mu-metal magnetic / light shield.

The crystal and the photomultiplier tube are housed in an aluminium container.

The assembly is connected to a solid state Pre-amplifier PA311 of NUCLEONIX make. Connectors are provided on Pre-amplifier for EHT, low voltage and signal output.

The complete Scintillation Detector can be housed in a Lead Shield. The pre-amplifier is designed to suit a wide range of standard Scintillation detectors.

SPECIFICATIONS

Transducer : Flat type Integral assembly

Phosphor : NaI (TI), 1x1 inches crystal

Photomultiplier :
 1 1/2 inch PMT with mu metal magnetic/light shielding.

Operating Voltage : 650 - 850V

Resolution : Better than 8.5% with Cs-137

Pre-amplifier : Built-in

Gain (Approx) : 25

Noise : (rms referred to input) Less than 50 micro volts

Output : Positive tail pulse

Output Impedance : 90 Ohms

Power Requirement : (Typical)
 -12V @12mA