



# NovoNuclear Private Limited



## NOVO-SCINT

Digital Photomultiplier Base



The **VIOLA** is our new photomultiplier base. It features an integrated high voltage supply, preamplifier, 12 bit, 64 MHz sampling ADC and digital signal processing in an FPGA.

### □ Technical Specifications

#### Size

- Length without connectors: 61.45 mm
- Diameter: 58.3 mm
- Weight: approx. 200 g

#### Environment

- Temperature: 0-50 °C (storage temperature -20-50 °C)
- Humidity: <80%, non condensing

#### Signal processing

- Input gains 1000 – 27800 V/A
- 12 bit, 64 MHz sampling ADC
- Up to 4096 spectrum channels or more
- Integrated oscilloscope function
- Integrated digital pulser
- Maximum preset time > 10 years

#### Software

- InterWinner Device Configurator for firmware updates and IP configuration

- InterWinner spectroscopy software for data acquisition and control

#### High voltage

- High voltage 200-1350 V, positive
- Compatible with standard 14 pin PMTs for NaI, CsI, LaBr ...

#### Communication and power

- Ethernet communication, IP address can be set by DHCP or manually
- USB-C port for communication
- Power supply over PoE or USB-C
- All parameters can be controlled using the InterWinner software
- Thanks to the InterWinner scripting language routine tasks can be automated

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