



VIOLA

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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