



FemtoDAQ Vireo (formerly FemtoDAQ revision G) 2-Channel Digitizer With SiPM Bias Supply



The FemtoDAQ LV-2 is a compact, low cost data acquisition system. It uses a Linux-based computer module for control. It provides two digitizer channels, logic I/O for connecting to external devices and a detector bias supply for use with silicon photomultipliers, PIN diodes, and similar detectors.

FemtoDAQ Vireo Specifications	
Channel Count	2
Bit Resolution	14
Sampling Frequency (MHz)	100
Analog Inputs	LEMO (Max 2Vpp input) AUX (TRRS) port (Detector Attachment System: power and signal over 1 cable)
Waveform Length	Up to: 40.96 μ s (100MHz)

Trigger Modes	<i>Hit Pattern, Multiplicity</i>
Real-Time Pulse Processing	<i>Pulse height, Trigger height, Timestamping</i>
Data Products	<i>Waveforms, Histograms (in-firmware), Pulse Summaries Additional customization available on a contract-basis</i>
Analog Outputs	N/A
Readout Options	<i>Internal Storage</i>
Physical Dimensions (cm)	<i>10.2 x 16.5 x 7.6</i>
Weight (kg)	<i>0.30</i>
Form Factor	<i>Benchtop</i>
Digital I/O	<i>2 MCX Input 2 MCX Output</i>
Synchronization	<i>Sync Timestamp Input (ideal for White Rabbit or GPS pulse-per-second)</i>
Computer Interfaces	<i>USB and Mini-USB Ethernet</i>
Detector Bias	<i>11-56V, 4mA</i>
Power	<i>5V DC Barrel Jack</i>
User Interface	<i>Web-based interface (no installation required!) available via mini USB or Ethernet</i>
API	<i>Programming not required if using the Web-Interface.</i> <i>However, Python and C-language APIs are available for custom scripts Dozens of example scripts for data collection Bash Utilities for Quick Operation</i>
Operating System	<i>Embedded Linux</i>

About SkuTek Instrumentation

We are a small company dedicated to serving physics researchers worldwide. We specialize in high-speed Data Acquisition systems and Digital Pulse Processing electronics. Our product line comprises the whole data acquisition chain: detectors, digitizers, firmware pulse processing, and data management for scientific big-data applications.