

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

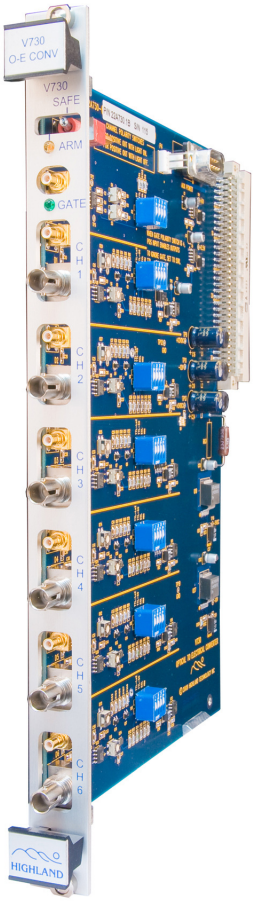
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

HIGHLAND TECHNOLOGY

V730 optical-to-electrical converter

Features



- Six channels of logic-level optical-to-electrical conversion
- Propagation delay 10 nanoseconds typical
- Link jitter below 12 picoseconds RMS
- FC and ST connectorized versions accept 850 nanometer, 1310 nanometer, or 1550 nanometer optical input
- Outputs TTL and NIM logic levels
- For use in a VME rack, or standalone with available external power supply

The V730 is a six-channel logic-level optical-to-electrical converter, packaged as a single-width, 6U VME module. When used with compatible Highland optical transmitter modules, the V730 provides fast, low-jitter, EMI-proof distribution of pulses, triggers, and precision timing signals.

The V730 accepts 850 nanometer, 1310 nanometer, or 1550 nanometer optical input through FC or ST connectors using either single- or multi-mode fiber. Nominal input power is 1 milliwatt with a detection threshold of 250 microwatts.

The module's electrical outputs produce TTL and NIM logic levels, with selectable polarity. The user can independently configure each channel's logic level and polarity. Output drive is 0 to 5 volts into a 50 ohm load.

Safety features include a logic-level GATE input to enable/disable the output drivers and a front-panel safety toggle switch that removes power from the output drivers.

The module receives power from the VME backplane; it does not connect to the VME data bus, and passes all grant signals. The V730 also accepts power from the optional J192 power supply for standalone use.

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V730 optical-to-electrical converter

FUNCTION	Six channels of logic-level optical-to-electrical conversion
INPUTS	Six Si PIN detectors (850 nm version), ST connectors, suitable for use with 62/125 µm multimode fiber 1310 nm and 1550 nm versions utilize ST or FC connectors and InGaAs PIN detectors, suitable for use with 9/125 µm singlemode fiber Optical threshold adjustable 100 to 1250 µW, factory set to 250 µW
PROPAGATION DELAY	Single channel light in to electrical out: 10 ns, typical V720 + V730: 11.4 ns, typical (plus fiber delay)
OUTPUTS	Six logic levels on SMB connectors, individually selectable as TTL/LoZ, TTL/50Ω, ECL, or NIM levels; switchable output polarity
BANDWITH	DC to 180 MHz repetition rate
RISETIME	Electrical outputs: < 750 ps, 10 to 90%
JITTER	< 12 ps RMS, typical (V720 + V730 combination)
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5V: 150 mA +12V: 60 mA + logic load current -12V: 450 mA
CONNECTORS	ST or FC optical input receptacles Gold plated SMB logic output and GATE jacks D9 male power jack
INDICATORS	LEDS: Amber ARM, green GATE
PACKAGING	6U single-wide VME module The V730 uses only power from the VME bus and passes all grant signals

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP