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Data Sheet

August 14, 2026

HIGHLAND TECHNOLOGY

Highland Technology V375 Arbitrary Waveform Generator

Highland Technology V375 4-Channel VME Arbitrary Waveform Generator 300 kHz The Highland Technology V375 is a 4-channel VME arbitrary waveform generator designed with aircraft-engine and power-system manufacturers for real-world sensor simulation. Published V375 literature lists 300 kHz output bandwidth (extended from the predecessor V370), four analog summing inputs for user waveforms, burst mode triggered by software or an external input, 16-bit amplitude resolution, 32-bit frequency resolution, four independent DDS frequency sources, per-channel divisors for fractional gear-ratio waveshapes, and real-time control of frequency, amplitude, phase, and DC offset. NSN 5998-01-542-1796. The Highland Technology V375 is a 4-channel VME arbitrary waveform generator designed with aircraft-engine and power-system manufacturers for real-world sensor simulation. Published V375 literature lists 300 kHz output bandwidth (extended from the predecessor V370), four analog summing inputs for user waveforms, burst mode triggered by software or an external input, 16-bit amplitude resolution, 32-bit frequency resolution, four independent DDS frequency sources, per-channel divisors for fractional gear-ratio waveshapes, and real-time control of frequency, amplitude, phase, and DC offset. NSN 5998-01-542-1796. Rotating-machine sensor simulation, polyphase AC with programmable distortion, complex pu



MODEL

Highland Technology V375

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

V375

LISTING

<https://aumictechlabs.com/products/v375-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Highland Technology V375 Arbitrary Waveform Generator is a instrument capable of producing complex and precisely controlled waveforms. It features a user-friendly interface and advanced programming options, allowing users to create and output custom waveforms with exceptional accuracy and speed. Ideal for research, development, and production testing.

V375 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Four-channel VME arbitrary waveform generator
Bus	VME
Channel Count	4
Output Bandwidth	300 kHz
Amplitude Resolution	16 bit
Frequency Resolution	32 bit
Dds Sources	4 independent direct digital synthesizer frequency sources
Summing Inputs	4 analog inputs for user waveforms summed into channel outputs
Burst Mode	software or external input triggers one or more waveform cycles
Realtime Controls	frequency, amplitude, phase, and DC offset smoothly variable in real time
Channel Divisors	per-channel divisors for fractional gear-ratio waveshapes
Wave Memory	versatile wave memory partitioning
Output Stage	analog summing
Predecessor	V370 (V375 extends bandwidth to 300 kHz and adds summing inputs and burst)
Nsn	5998-01-542-1796
Literature	Highland Technology V375 4-channel VME AWG product literature
Polyphase Use	pure and distorted polyphase AC with waveshape parameters variable in real time
Pulse Trains	complex pulse trains with real-time relative pulse position and amplitude control
Actuator Use	shake table, servo, or actuator drive
Sensor Sim	sensor signals from complex rotating machines
Architecture	module architecture designed with major aircraft engine and power systems manufacturers
Trigger Burst	external input or software burst trigger

PARAMETER	VALUE
Bandwidth	300 kHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes	
Channel count, 300 kHz bandwidth, 16-bit amplitude, 32-bit frequency, four DDS, four summing inputs, burst	

mode, and NSN from Highland Technology V375 published product literature. Sample-rate and analog-output-level tables are in the V375 datasheet/manual and are not invented.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.