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Data Sheet

August 14, 2026

FLUKE / WAVETEK

Fluke / Wavetek 1375 20 MHz Arbitrary Waveform Generator

Fluke Wavetek 1375 20 MHz Arbitrary Waveform Generator The Fluke/Wavetek 1375 isaVXI arbitrary waveform generator in the Wavetek modular source family providing arbitrary and standard waveforms to 20 MHz class with 12-bit vertical resolution class. Family literature positions it between the 1370 sweep/function generator and the higher-rate 1395/1396 arbitrary synthesizers for ATE stimulus. Custom waveform playback in VXIbus ATE, standard function generation within the 20 MHz family envelope, and sequenced stimulus for board-level functional test. The Fluke/Wavetek 1375 isaVXI arbitrary waveform generator in the Wavetek modular source family providing arbitrary and standard waveforms to 20 MHz class with 12-bit vertical resolution class. Family literature positions it between the 1370 sweep/function generator and the higher-rate 1395/1396 arbitrary synthesizers for ATE stimulus. Custom waveform playback in VXIbus ATE, standard function generation within the 20 MHz family envelope, and sequenced stimulus for board-level functional test. 12 bit vertical resolution class on family



MODEL

**Fluke / Wavetek
1375**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1375

LISTING

<https://aumictechlabs.com/products/1375-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke/Wavetek 1375 is a 20 MHz arbitrary waveform generator housed in a VXIbus C-size module, delivering custom signal generation with 32k horizontal memory and 12-bit vertical resolution. Built for precision test environments, this single-slot instrument generates standard waveforms and user-defined arbitrary signals with 1 mHz frequency resolution and 0.01% frequency accuracy across its 20 MSa/s sampling rate.

Technical Specifications

Signal Generation Performance

- Maximum frequency: 20 MHz arbitrary waveform generation
- Sampling rate: 20 MSa/s per channel
- Waveform memory: 32,000 points (32k horizontal)
- Vertical resolution: 12-bit, 4096 points
- Frequency resolution: 1 mHz
- Frequency accuracy: 0.01%
- Output impedance: 50 Ohm

Output Specifications

- Maximum output voltage: 10 V
- Minimum output voltage: 707.106781186547 mV
- Output accuracy: 2.5089%

Triggering & Synchronization

Six triggered modes: Burst, Continuous, Gate, and Trigger configurations

Marker outputs available

Key Features

- Standard waveform library: Sine, Square, Ramp, Triangle
- 64 KB A24 shared memory for program and data storage
- SCPI command set for remote instrument control
- Universal auto-sensing input power
- Compact 2 kg form factor
- VXIbus backplane integration

Typical Applications

The 1375 serves analog signal simulation, component validation, transducer calibration, and circuit testing where arbitrary waveform flexibility and moderate bandwidth meet frequency resolution and output precision requirements.

Compatibility & Integration

This C-size VXIbus module operates within VXI chassis environments and communicates via SCPI protocols. Installation includes VXI plug connector and play driver software. Universal input power with automatic sensing enables flexible system integration.

1375 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke Wavetek 1375
Form Factor	VXICsize module class
Maximum Frequency Class	20 MHz
Vertical Resolution Class	12 bit
Waveform Modes Class	arbitrary and standard functions
Related Lower Bandwidth Model	Wavetek 1370 12 MHz sweep/function
Related Higher Bandwidth Models	Wavetek 1395 1396 50 MHz class
Sample Memory Class	arbitrary memory depth configuration dependent
Output Impedance Class	50 ohm class
Remote Control Class	VXI message based SCPI class
Amplitude Class	programmable Vpp into 50 ohm class
Offset Class	programmable DC offset class
Trigger Modes Class	continuous triggered gated burst class
Operating Temperature Class	VXI chassis ambient
Cooling	chassis airflow required
Series Family	Wavetek VXI arbitrary generators
Manufacturer Branding	Fluke Wavetek
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Interval Class	1 year class
Documentation	operating manual required for fine limits
Identity Verified Against Family Literature	yes
Safety Earth Required	via VXI chassis
Bandwidth	Model: Wavetek 1370 12 MHz sweep/function
Operating temperature	Class: VXI chassis ambient

1375 Specifications

PARAMETER	VALUE
Fluke Wavetek 1375 20 MHz Arbitrary Waveform Generator	Overview
Arbitrary waveform generation class	12 bit vertical resolution class on family
Technical Specifications	Instrument Family: Fluke Wavetek 1375

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: VXI chassis ambient
Operating Temperature	Class: VXI chassis ambient
Operating Temperature Class	VXI chassis ambient
Cooling	chassis airflow required
Series Family	Wavetek VXI arbitrary generators
Manufacturer Branding	Fluke Wavetek
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Interval Class	1 year class
Documentation	operating manual required for fine limits
Identity Verified Against Family Literature	yes
Safety Earth Required	via VXI chassis Notes Identity and family capability rows from Fluke/Wavetek 1375 product listings within the Wavetek VXI AWG family. Confirm exact sample rate memory depth and amplitude accuracy on the 1375 datasheet before accredited use.

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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PARAMETER	VALUE
Instrument Family	Fluke Wavetek 1375
Form Factor	VXICsize module class
Maximum Frequency Class	20 MHz
Vertical Resolution Class	12 bit
Waveform Modes Class	arbitrary and standard functions
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Operating Temperature Class	VXI chassis ambient
Cooling	chassis airflow required
Series Family	Wavetek VXI arbitrary generators
Manufacturer Branding	Fluke Wavetek
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Calibration Interval Class	1 year class
Documentation	operating manual required for fine limits
Identity Verified Against Family Literature	yes
Option Codes: confirm on faceplate	
Safety Earth Required: via VXI chassis	
Notes	
Identity and family capability rows from Fluke/Wavetek 1375 product listings within the Wavetek VXI AWG family. Confirm exact sample rate memory depth and amplitude accuracy on the 1375 datasheet before accredited use.	

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.