


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 397 Universal Waveform Generator

Interfaces: GPIB (IEEE-488.2), USB 2.0, Ethernet 10/100Base-T, RS-232 to 115 kBaud Display: 3.5 in color LCD, 320 × 240, backlit Sweep range: 1 mHz to 125 MHz; sweep time 1 ms to 999 s Specs from Fluke 396/397 Universal Waveform Generators product page. Confirm installed options on the unit. The Fluke 397 is a dual-channel arbitrary waveform generator with 14-bit vertical resolution, up to 4 M points of waveform memory per channel, and a 125 MS/s sample clock. It generates standard and arbitrary waveforms, sequences, sweeps, FSK, and external AM, with GPIB, USB, and Ethernet remote control and ArbExplorer software.



MODEL

Fluke 397

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

397

LISTING

<https://aumictechlabs.com/products/397-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 397 is a dual-channel universal waveform generator combining synthesis and arbitrary waveform generation for test, calibration, and troubleshooting across telecommunications, radar, and audio/video applications. It delivers 14-bit vertical resolution, 125 MSa/sec sampling, and a 4 MB arbitrary waveform memory divided into up to 2048 segments. Technical Specifications

Waveform Generation Waveform types: Sine, square, triangle, sawtooth, Gaussian pulse, exponential decaying/rising pulse, sine(x)/x, pulse/ramps, random noise, DC, and arbitrary/complex waveforms Dual independent channels with <5 ns initial skew between channels 14-bit vertical resolution (16,384 output levels) Arbitrary waveform memory: 4 MB word, segmentable to 2048 divisions Sampling rate: 125 MSa/sec Frequency Performance Sine/square

output: 100 mHz to 50 MHz Triangle, pulse/ramps, Gaussian pulse, exponential pulse, sine(x)/x: up to 12.5 MHz Sine, cosine, haversine, havercosine: 0.1 mHz to 16 MHz Frequency resolution: 0.1 Hz (DDS: 7-digit; non-DDS: 4-digit) Sweep range: 1 mHz to 10 MHz Harmonic distortion (sine/cosine): <-60 dBc to 20 kHz, <-50 dBc to 1 MHz, <-35 dBc to 10 MHz Total harmonic distortion: <0.1% typical Non-harmonic spuri: <-65 dBc to 1 MHz Amplitude and Offset Output amplitude: 10 mVpp to 10 Vpp (50 Ω load); 20 mVpp to 20 Vpp (open circuit) Amplitude resolution: 1 mV DC offset range: ± 5 V Offset resolution: 1 mV Output impedance: 50 Ω Key Features Internal and external synchronization with tight inter-channel control via shared sample clock Multiple operating modes: normal, triggered, counted burst, gated, FM, sweep, N-cycle burst, sequence generator Modulation support: FM, PM, PWM, FSK Trigger sources: internal (100 mHz to 2 MHz), external TTL (DC to 2 MHz), manual, or remote interface Master/slave multi-instrument configurations via dedicated synchronization connector Typical Applications Research and development, calibration labs, educational institutions, telecommunications testing, radar signal simulation, audio/video system verification.

Features & description

From manufacturer datasheet

Features

- Dual channels sharing one sample clock with ns-class skew control
- Deep memory with segment linking/looping
- Standard waveforms to 50 MHz sine/square
- ArbExplorer waveform creation/editing software
- GPIB, USB 2.0, and 10/100 Ethernet

Applications

- Dual-channel arbitrary stimulus for R&D and ATE
- Audio, video, telecom, radar, and ultrasonic waveform synthesis
- Synchronized multi-instrument systems via sync cable
- Sequenced complex waveform playback

397 Characteristics / Specifications

PARAMETER	VALUE
Model	397
Manufacturer	Fluke
Instrument Type	Universal Waveform Generator
Alias	397; Fluke 397
Channels	2
Vertical resolution	14 bits
Sample clock	100 mHz to 125 MHz
Arbitrary waveform length	16 to 4 M points
Stored waveforms	up to 4096 per channel
Sequence segments linkable	up to 4096; min segment 1 us; loop to 1,000,000
Sine range	0.1 mHz to 50 MHz
Square range	0.1 mHz to 50 MHz; rise/fall <10 ns
Triangle/pulse class	0.1 mHz to 12.5 MHz
Amplitude into 50 ohm	10 mVpp to 10 Vpp (20 mVpp to 20 Vpp open)
Amplitude accuracy	<1% +/-25 mV (1 V to 10 Vpp into 50 ohm)
DC offset	+/-4.5 V into 50 ohm (peak limits apply)
Frequency accuracy	<1 ppm for 1 year (sine/triangle class)
Interfaces	GPIB (IEEE-488.2), USB 2.0, Ethernet 10/100Base-T, RS-232 to 115 kBaud
Display	3.5 in color LCD, 320 × 240, backlit
Size	88 × 415 × 212 mm (HxDxW)
Weight	6 kg
Power	85 to 265 V, 48-63 Hz, 60 W
Operating temperature	0 degC to 50 degC

PARAMETER

VALUE

Sweep range

1 mHz to 125 MHz; sweep time 1 ms to 999 s Notes Specs from Fluke 396/397 Universal Waveform Generators product page. Confirm installed options on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 degC to 50 degC
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Sweep range	1 mHz to 125 MHz; sweep time 1 ms to 999 s Notes Specs from Fluke 396/397 Universal Waveform Generators product page. Confirm installed options on the unit.

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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Instrument Type	Universal Waveform Generator
Alias	397; Fluke 397
Specifications	
PARAMETER	VALUE
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Inter-channel skew error: <2 ns class

Sweep range: 1 mHz to 125 MHz; sweep time 1 ms to 999 s

Notes

Specs from Fluke 396/397 Universal Waveform Generators product page. Confirm installed options on the unit.

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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NIST-traceable calibration · SAM registered ·
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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.