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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3314A Programmable Function Generator

HP Agilent 3314A Function Generator 1 mHz to 20 MHz The HP/Agilent 3314A is a function generator covering 1 mHz to 20 MHz with sine square triangle and arbitrary waveform capability. OEM literature positions the 3314A for versatile waveform generation with AM/gated modes and HP-IB control options on the platform. General purpose waveform generation, circuit stimulus from 1 mHz to 20 MHz, and automated test stimulus with HP-IB when optioned. Sine square triangle and arbitrary waveforms The HP/Agilent 3314A is a function generator covering 1 mHz to 20 MHz with sine square triangle and arbitrary waveform capability. OEM literature positions the 3314A for versatile waveform generation with AM/gated modes and HP-IB control options on the platform. General purpose waveform generation, circuit stimulus from 1 mHz to 20 MHz, and automated test stimulus with HP-IB when optioned. Sine square triangle and arbitrary waveforms Waveforms: sine square triangle arbitrary class



MODEL

HP / Agilent 3314A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3314A

LISTING

<https://aumictechlabs.com/products/3314a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3314A is a programmable function generator delivering sine, square, triangle, ramp, and pulse waveforms from 0.001 Hz to 19.99 MHz, with ramp and pulse capabilities to 2 MHz. It generates arbitrary waveforms from user-defined vectors stored in non-volatile memory

and supports amplitude outputs from 0.01 mVp-p to 10 Vp-p into 50 Ω , expandable to 30 Vp-p into loads exceeding 500 Ω with Option 001. Independent ± 5 V DC offset can be applied to any AC signal using post-attenuator summing. Variable symmetry control (5% to 95%) enables pulse generation with rise/fall times as low as 9 ns for digital circuit testing and positive or negative ramps for amplifier characterization. The instrument integrates AM and FM/VCO modulation at 100 kHz bandwidth, linear and logarithmic sweeping, and multiple trigger modes including N-cycle burst (1 to 1999 cycles), gate mode, and 1/2-cycle generation. Phase lock synchronization (XN and $\div N$) and variable start/stop phase control support specialized waveform synthesis. Frequency accuracy reaches 0.01% on upper ranges with sine distortion below -55 dBc to 50 kHz. Internal triggering spans 0.5 mHz to 500 kHz; external triggering is supported for burst and gate modes with trigger output for device synchronization. Full HP-IB programmability integrates the 3314A into automated test equipment and complex measurement systems.

Technical Specifications

Frequency Range: 0.001 Hz to 19.99 MHz (sine, square, triangle); ramp and pulse to 2 MHz
Amplitude: 0.01 mVp-p to 10 Vp-p into 50 Ω ; optional 30 Vp-p into >500 Ω with Option 001 DC
Offset: Independent ± 5 V into 50 Ω Frequency Accuracy: 0.01% on upper ranges Sine Distortion:
 <-55 dBc to 50 kHz Symmetry Control: 5% to 95% (ramps and pulses) Pulse Rise/Fall Time: As
low as 9 ns Arbitrary Waveforms: Up to 150 vectors with non-volatile storage Modulation
Bandwidth: 100 kHz (AM and FM/VCO) Burst Mode: 1 to 1999 cycles Internal Trigger Range: 0.5
mHz to 500 kHz Key Features Variable symmetry for narrow pulse and ramp generation N-cycle
burst and gate modes for signal sequencing Phase lock and variable start/stop phase for
synchronized outputs Linear and logarithmic sweep with manual control Arbitrary waveform
generation with persistent memory AM and FM/VCO modulation usable separately or
simultaneously External and internal triggering with synchronization output Typical Applications
Digital circuit testing with sub-nanosecond pulse generation Filter and amplifier network
characterization via frequency sweeps Sonar and transducer signal simulation Process control
and feedback loop testing Automated test environments requiring synchronized multi-instrument
operation Compatibility & Integration HP-IB programmable interface for all front panel controls
Suitable for automated test systems and benchtop integration Trigger output for external device
synchronization

3314A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	1 mHz to 20 MHz
Waveforms	sine square triangle arbitrary class
Output Modes Class	continuous triggered gated AM class
Frequency Resolution Class	multi digit synthesized/analog hybrid class
Amplitude Control	variable amplitude class
DC Offset	yes class
Symmetry Duty Cycle	variable class
Output Impedance Class	50 ohm
Remote Interface Class	HP-IB option path
Form Factor	benchtop function generator
Display	digital frequency/amplitude display class
Sync Output	yes class
Sweep Class	available on platform literature
Operating Modes Count Class	multiple
Series Family	HP 3314A
AC Mains Powered	yes
Marker Output Class	configuration dependent
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family
Specification Ambient Class	23 C class unless otherwise stated
Calibration Traceability Class	standards laboratory traceable class
Firmware Or Hardware Revision	confirm on unit labels

3314A Specifications

PARAMETER	VALUE
HP Agilent 3314A Function Generator 1 MHz to 20 MHz	Overview
Applications	General purpose waveform generation, circuit stimulus from 1 MHz to 20 MHz, and automated test stimulus with HP-IB when optioned.
Key Features	1 MHz to 20 MHz frequency coverage
Technical Specifications	Frequency Range: 1 MHz to 20 MHz

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
Frequency Range	1 mHz to 20 MHz
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Notes	
Frequency span and waveform set from HP/Agilent 3314A product literature. Confirm exact amplitude accuracy distortion and option codes on the operating manual for the serial prefix.	

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.