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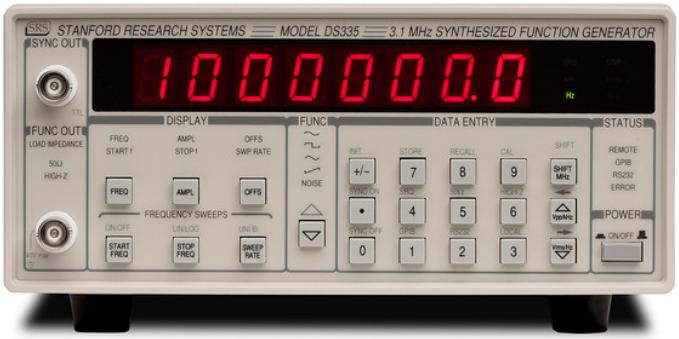
Data Sheet
August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research DS335 â€“ Synthesized Function Generator

Dimensions: 8.5 in x 3.5 in x 13 in (WxHxL) Line Power: 25 W, 100/120/220/240 VAC, 50/60 Hz Default Frequency: 1 MHz sine, 1 Vpp, 50 ohm load (power-on defaults) Specs from SRS DS335 user manual specification section. Confirm optional TCXO and interface option. Fuse is 1 A slow-blow (100/120 V) or 0.5 A (220/240 V) per the manual power-entry procedure. Line Power: 25 W, 100/120/220/240 VAC, 50/60 Hz Default Frequency: 1 MHz sine, 1 Vpp, 50 ohm load (power-on defaults) Specs from SRS DS335 user manual specification section. Confirm optional TCXO and interface option. Fuse is 1 A slow-blow (100/120 V) or 0.5 A (220/240 V) per the manual power-entry procedure.



MODEL **Stanford Research Systems DS335**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **DS335**	LISTING **https://aumictechlabs.com/products/ds335-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems DS335 is a synthesized function generator built on Direct Digital Synthesis (DDS) architecture for precision signal generation across benchtop and automated test environments. It delivers sine, square, ramp, triangle, and Gaussian white noise waveforms with exceptional spectral purity and stability, making it suitable for electronics testing, research, and development applications requiring accurate waveform synthesis.Technical Specifications Frequency and Waveform Generation Frequency range: 1 µHz to 3.1 MHz Frequency resolution: 1

µHz Sine output: up to 3.1 MHz with spurious response <-65 dBc (≤1 MHz) and <-55 dBc (1–3.1 MHz) Square wave: up to 3.1 MHz with rise/fall time <15 ns ± 5 ns (10%–90%) Ramp and triangle: up to 10 kHz with ±0.1% linearity Gaussian white noise: 3.5 MHz bandwidth Harmonic distortion: <-60 dBc (DC–100 kHz), <-50 dBc (100 kHz–1 MHz), <-40 dBc (1–3 MHz) Phase noise: <-60 dBc (30 kHz band) Amplitude and Offset Output range: 50 mVpp to 10 Vpp (50 Ω); 100 mVpp to 20 Vpp (high-Z load) DC offset: ±5 VDC (50 Ω); ±10 VDC (high-Z load) Amplitude resolution: 3 digits Amplitude accuracy: 0.1 dB (sine) Modulation and Sweeps FSK: internal (50 kHz max) and external (1 MHz TTL) Frequency sweeps: linear and logarithmic, phase-continuous Sweep rate: 0.01 Hz to 1 kHz Sweep span: full range (linear), 6 decades (logarithmic) Bidirectional sweep capability with rear-panel output Timebase Standard accuracy: ±5 ppm (20–30 °C) Optional TCXO: 2 ppm stability and aging (20–50 °C)Key Features Non-volatile memory stores nine instrument configurations Optional RS-232 and GPIB interfaces with full remote control Compact benchtop form factor: 8.5" W × 3.5" H × 13" D, 8 lbs Low power consumption: 22 W Universal AC input: 100/120/220/240 VAC, 50/60 HzTypical Applications Circuit characterization and validation Component testing and device qualification Frequency response measurements Modulation and sweep testing in development labs

Features & description

From manufacturer datasheet

Features

• 1 uHz resolution on sine, square, ramp, and triangle • Square rise/fall less than 15 ns +/-5 ns (10 to 90 %) at full output • Sweep 0.01 Hz to 1 kHz; span 1 uHz to 3.1 MHz (10 kHz for triangle/ramp) • FSK internal 0.01 Hz to 50 kHz; external TTL to 1 MHz • 8.5 in x 3.5 in x 13 in, 8 lbs, 25 W • Battery-backed RAM remembers settings

DS335 Characteristics / Specifications

PARAMETER	VALUE
Model	DS335
Manufacturer	Stanford Research Systems
Instrument Type	Synthesized Function Generator
Alias	DS335; SRS DS335
Sine Maximum Frequency	3.1 MHz
Square Maximum Frequency	3.1 MHz
Ramp Maximum Frequency	10 kHz
Triangle Maximum Frequency	10 kHz
Noise Bandwidth	3.5 MHz Gaussian weighting
Frequency Resolution	1 uHz
Frequency Accuracy	+/-25 ppm (0 to 70 C)
Timebase Aging	5 ppm/year
Amplitude Range Fifty Ohm	+/-5 V into 50 ohm, |Vac peak| + |Vdc| less than or equal to 5 V
Amplitude Range High Z	+/-10 V into Hi-Z, |Vac peak| + |Vdc| less than or equal to 10 V
DC Offset Limit	|Vdc| less than or equal to 2 x Vpp in all cases
Amplitude Resolution	3 digits
DC Offset Accuracy	1.2 % of setting (DC only); +/-0.8 mV to +/-80 mV depending on AC and DC settings
Spurious to 1 MHz	less than or equal to -65 dBc
Spurious to 3.1 MHz	less than or equal to -55 dBc
Phase Noise	less than or equal to -60 dBc in a 30 kHz band centered on the carrier, exclusive of discrete spurs
Subharmonic	less than or equal to -70 dBc
Harmonic Distortion DC to 100 kHz	less than or equal to -60 dBc
Harmonic Distortion 0.1 to 1 MHz	less than or equal to -50 dBc
Harmonic Distortion 1 to 3.1 MHz	less than or equal to -40 dBc

PARAMETER	VALUE
Square Rise Fall Time	less than 15 ns +/-5 ns (10 to 90 %) at full output
Square Asymmetry	less than 1 % of period + 3 ns
Square Overshoot	less than 5 % of p-p at full output
Ramp Triangle Rise Fall Time	100 +/-20 ns (3.5 MHz Bessel filter)
Ramp Triangle Linearity	+/-0.1 % of full scale
Ramp Settling Time	less than 200 ns to within 0.5 % of final value at full output
Sweep Type	linear or log, phase continuous
Sweep Waveforms	up, down, up-down, single sweep
Sweep Rate	0.01 Hz to 1 kHz
Sweep Span	1 uHz to 3.1 MHz (10 kHz for triangle or ramp)
FSK Internal Rate	0.01 Hz to 50 kHz
FSK Shift Span	1 uHz to 3.1 MHz (10 kHz for triangle or ramp)
External FSK	TTL input, 1 MHz maximum
Interfaces	RS-232C 300 to 9600 baud DCE and GPIB
Dimensions	8.5 in x 3.5 in x 13 in (WxHxL)
Weight	8 lbs
Line Power	25 W, 100/120/220/240 VAC, 50/60 Hz
Default Frequency	1 MHz sine, 1 Vpp, 50 ohm load (power-on defaults) Notes Specs from SRS DS335 user manual specification section. Confirm optional TCXO and interface option. Fuse is 1 A slow-blow (100/120 V) or 0.5 A (220/240 V) per the manual power-entry procedure.
Bandwidth	3.5 MHz Gaussian weighting

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	Synthesized Function Generator
Alias	DS335; SRS DS335
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Square Maximum Frequency	3.1 MHz
Ramp Maximum Frequency	10 kHz
Triangle Maximum Frequency	10 kHz
Noise Bandwidth	3.5 MHz Gaussian weighting
Frequency Resolution	1 uHz
Frequency Accuracy	+/-25 ppm (0 to 70 C)
Timebase Aging	5 ppm/year

Optional TCXO Stability: +/-2.0 ppm, 0 to 50 C
Optional TCXO Aging: 5 ppm first year, 2 ppm per year thereafter

Specifications

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Amplitude Range Fifty Ohm	+/-5 V into 50 ohm, |Vac peak| + |Vdc| less than or equal to 5 V
Amplitude Range High Z	+/-10 V into Hi-Z, |Vac peak| + |Vdc| less than or equal to 10 V
DC Offset Limit	|Vdc| less than or equal to 2 x Vpp in all cases
Amplitude Resolution	3 digits
DC Offset Accuracy	1.2 % of setting (DC only); +/-0.8 mV to +/-80 mV depending on AC and DC settings
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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

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