

Synthesized Function Generators

DS335 — 3 MHz function generator



DS335 Function Generator

- 1 pHz to 3.1 MHz frequency range
- 1 pHz frequency resolution
- Sine, square, ramp, triangle & noise
- Phase-continuous frequency sweeps
- FSK modulation
- 10 Vpp into 50 Ω
- RS-232 and GPIB interfaces (opt.)

• DS335 ... \$1095 (MSRP)

The DS335 is a simple, low-cost, 3 MHz function generator designed for general benchtop or ATE applications. Based on a Direct Digital Synthesis (DDS) architecture, the DS335 includes features not normally found in function generators in this price range.

Basic functions include sine waves and square waves (up to 3.1 MHz), and ramps and triangles (up to 10 kHz). A 3.1 MHz Gaussian white-noise generator is also provided. All functions can be swept logarithmically or linearly in a phase-continuous fashion over the entire frequency range. A non-paused SWEEEP output marks the beginning of a sweep to allow synchronization of external devices. Both unidirectional and bidirectional sweeps can be selected.

Internal and external FSK modes allow the output frequency to be rapidly toggled between two preset values. Toggling is done either at a fixed, internal rate of up to 50 kHz, or externally via a rear-panel input.

Outputs have the low phase noise inherent to DDS. Wide-band amplifiers maintain good pulse response and provide low distortion. The result is an output capable of driving 10 Vpp into a 50 Ω load, or 20 Vpp into a high-impedance load.

Both GPIB and RS-232 interfaces are available to provide complete control via an external computer. All instrument functions can be set and read via the computer interfaces.

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Annelies Wilder-Smith



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Table of Contents Stanford Research Systems Ds335 User Guide

1. Understanding the eBook Stanford Research Systems Ds335 User Guide
 - The Rise of Digital Reading Stanford Research Systems Ds335 User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Stanford Research Systems Ds335 User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stanford Research Systems Ds335 User Guide
 - User-Friendly Interface

4. Exploring eBook Recommendations from Stanford Research Systems Ds335 User Guide
 - Personalized Recommendations
 - Stanford Research Systems Ds335 User Guide User Reviews and Ratings
 - Stanford Research Systems Ds335 User Guide and Bestseller Lists
5. Accessing Stanford Research Systems Ds335 User Guide Free and Paid eBooks
 - Stanford Research Systems Ds335 User Guide Public Domain eBooks
 - Stanford Research Systems Ds335 User Guide eBook Subscription Services
 - Stanford Research Systems Ds335 User Guide Budget-Friendly Options
6. Navigating Stanford Research Systems Ds335 User Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Stanford Research Systems Ds335 User Guide Compatibility with Devices
 - Stanford Research Systems Ds335 User Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stanford Research Systems Ds335 User Guide
 - Highlighting and Note-Taking Stanford Research Systems Ds335 User Guide
 - Interactive Elements Stanford Research Systems Ds335 User Guide
8. Staying Engaged with Stanford Research Systems Ds335 User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stanford Research Systems Ds335 User Guide
9. Balancing eBooks and Physical Books Stanford Research Systems Ds335 User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stanford Research Systems Ds335 User Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Stanford Research Systems Ds335 User Guide
 - Setting Reading Goals Stanford Research Systems Ds335 User Guide
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Stanford Research Systems Ds335 User Guide
 - Fact-Checking eBook Content of Stanford Research Systems Ds335 User Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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