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Model 1396

VXIbus 50 MHz Arbitrary Waveform Synthesizer



- Up to 50 MHz Sampling with 12 Bit Resolution
- 128k (512k Optional) Horizontal Points
- Versatile Intermodule Triggering, Summing, and Phase Control
- Up to 450 User-Defined Waveforms
- Waveform Linking and Looping of Up to 4,096 Segments
- Frequency Control for Individual Sequence Segments
- Frequency Sweep and Hopping
- 16 Bit Digital Output
- Auxiliary Analog Output Updated During Sequence Operations
- SCPI-Compatible Command Language
- Single-Slot, C-Size VXlbus Message-Based Device

Model 1396 is Wavetek's highest performance VXI arbitrary waveform generator. It is ideal for applications requiring both standard function generator and custom waveform capability. Standard sine waves are available to 20 MHz, with square waves to 25 MHz. User-defined waveforms, with 12-bit vertical resolution, may be created with as few as 5 waveform points and up to 131,072 points (524,288 points optional). For simulating complex waveform sequences, the linked sequence mode allows linking and looping of up to 4096 waveform segments. The sample frequency of each waveform segment in a sequence can be independently programmed as an integer divisor of the highest sampling frequency in the sequence. In addition to the standard built-in sweep capability, the 1396 offers a frequency list function which can be used for custom sweeping or frequency hopping applications. Standard waveforms may be phase synchronized with waveforms from adjacent modules for applications requiring multichannel phase control. The 1396 also supports the VXIbus SUMBUS for summing of analog signals from multiple instruments. To simplify programming and help reduce development time, the 1396 supports dynamic configuration (DC), is message based, and SCPI compatible.

RELATED PRODUCT

Model 296 - 50MHz Multi-Channel Arb Generator with Advanced Waveform Sequencing and 16 Bit Digital Output

Specifications

Standard Waveforms

Sine, square, triangle, ramp, haversine, random, (sine x)/x, and DC.

Frequency

Range:
Sine and haversine: l mHz to 20 MHz.
Square: l mHz to 25 MHz.
All others: l mHz to 2 MHz.

Resolution:
8 digits limited by l mHz (5 digits above 20 MHz and in noncontinuous modes).

Accuracy:
Same as VXI CLK10 backplane signal (+/- 0.01% typical).

Waveform Quality

Sine Distortion (Elliptic filter selected):

Freq	Ampl	Harmonic Level
< 100 kHz	10 Vp-p	< -60 dBc
< 100 kHz	>10 Vp-p	< -55 dBc
< 5 MHz10	Vp-p	< -45 dBc
< 5 MHz	>10 Vp-p	< -40 dBc
20 MHz	10 Vp-p	< -35 dBc
20 MHz	> 10 Vp-p	< -28 dBc

Square Transition Time: < 9.5 ns.

Square Aberrations: < 5% + 20 mV.

Square Wave Duty Cycle Control

Range: 0 to 100%.
Resolution: 3 1/2 digits.

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Contact a member of the Test and Measurement support team.

tandmsupport@wavetek.com

Send us your suggestions or comments

WebTeam@wavetek.com

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