

WaveStation Function/Arbitrary Waveform Generators



Key Features

- High performance with 14-bit, 125 MS/s and 16 kpts
- 2 channels on all models
- Large 3.5" color display for easy waveform preview
- Over 40 built-in arbitrary waveforms
- Linear & Logarithmic sweeps and burst operation
- USB and GPIB connectivity
- Graphical waveform editing software for PC

A waveform generator must provide a large set of signal types and generation modes to cover a wide variety of applications. Some applications may require quick and easy access to basic waveforms while others may require advanced modulation techniques or the ability to import real world signals from an oscilloscope. The WaveStation Function/Arbitrary Waveform Generators meet the requirements ranging from basic function generation to advanced arbitrary waveform creation and are capable of generating signals up to 50 MHz. Each WaveStation model has 2 output channels a 3.5" display, intuitive front panel, and includes waveform editing software for the PC.

With over 40 built-in arbitrary waveforms plus the basic sine, square, ramp pulse and noise functions and 2 output channels WaveStation provides the flexibility that engineers and technicians require. The ability to easily create and preview waveforms is just as important as the hardware performance of a waveform generator. WaveStation has a large 3.5" color display which provides a preview of each waveform along with various parameters, such as frequency, amplitude, offset, and phase on a single screen. Integrating

WaveStation with other test equipment is easy, with all the necessary I/O connections for synchronization as well as standard USB and GPIB interfaces for remote control and automation easily accessible.

Accompanying the WaveStation hardware is a PC software utility which simplifies waveform creation and editing. The software runs on an external PC and provides additional waveform creation capabilities for shaping and editing waveforms with mathematical operators, digital filters or by placing individual sample points. A flexible waveform drawing tool is built in allowing the user to create a freeform waveform sketch on the Inaddition, the software provides unique capability of importing waveforms captured on a LeCroy WaveAce oscilloscope, via USB, and recreating them on the WaveStation.

WaveStation meets the needs of today's engineers and technicians by providing strong features, such as, more channels per unit, large color display, extensive waveform library and various connectivity and synchronization capabilities.

SPECIFICATIONS AND ORDERING INFORMATION

	WaveStation 2012	WaveStation 2022	WaveStation 2052
Bandwidth	10 MHz	25 MHz	50 MHz
Channels		2	
Waveforms	Sine, Square, Ramp, Pulse, Noise, 40+ Arbitrary Waveform Types		
Waveform Characteristics			
Sine			
Frequency Range	1 μHz - 10 MHz	1 μHz - 25 MHz	1 μHz - 50 MHz
Square	1 μπ2 - 10 Ινίπ2	Ι μπζ - 25 Ινίπζ	Ι μπ2 - 50 Ινίπ2
Frequency Range	1 10.1411-	1	OF MILE
	1 μHz - 10 MHz 20% - 80% 50%		
Duty Cycle Range Rise/Fall Time	20% - 80%	< 12 ns	170
		< 12 118	
Pulse		F00 F MIL-	
Frequency Range	500 μHz - 5 MHz		
Duty Cycle Range	0.1 % Resolution		
Rise/Fall Time		7 ns	
Triangle/Ramp			
Frequency Range	1 μHz - 300 kHz		
Ramp Symmetry		0% - 100%	
Arbitary Waveforms			
Frequency Range	1 μHz - 5 MHz		
Waveform Length	16 kpts/Ch		
Vertical Resolution	14 bits		
Sample Rate	125 MS/s		
Min. Rise/Fall time	7 ns (typical)		
Madulatian Comes Bount Canabilitie	-		
Modulation, Sweep, Burst Capabilitie	es .		
Amplitude Modulation			
Source	Internal/External		
Carrier	Sine, Square, Ramp, Arbitrary		
Modulation Depth	0% - 120%		
Modulating Waveform Sample Clock		3.90625 MHz	
Frequency Modulation			
Source	Internal/External		
Carrier	Sine, Square, Ramp, Arbitrary		
Resolution		10 μHz	
Sweep			
Type		Linear/Logarithmic	
Direction	Up/Down		
Sweep Time		1 ms - 500 s	
Burst			
Type	Co	unt (1 - 50,000 Periods, Infinite, Gated)
Start/Stop phrase		0° - +360°	
Internal Period	1 us - 500 s		
Gated Source	External Trigger		
Trigger Source	Manual, External or Internal		
Channel Characteristics			
Output Connector	BNC		
Output Impedance	50 Ω , High Impedance		
Display			
Characteristics		3.5 inch TFT-LCD, QVGA	
		3.5 Inch TFT-LCD, QVGA	
Physical Characteristics			
Dimensions (HWD)	105 mm x 229 mm x 281 mm		
Weight	2.6 Kg		
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Ordering Information

Product Description	Product Code	
10 MHz, 2ch, 14bit, 125MS/s Function/Arbitrary Waveform Generator with 3.5" Display	WaveStation 2012	
25 MHz, 2ch, 14bit, 125MS/s Function/Arbitrary Waveform Generator with 3.5" Display	WaveStation 2022	
50 MHz, 2ch, 14bit,125MS/s Function/Arbitrary Waveform Generator with 3.5" Display	WaveStation 2052	



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