

## WaveStation™ Function/Arbitrary Waveform Generators



#### **Key Features**

- High performance with 14-bit resolution, up to 500 MS/s sample rate and up to 512 kpts memory
- 2 channels on all models
- Large 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

With 5 basic signal types, and over 40 built-in arbitrary waveforms the WaveStation is a versatile waveform generator. A variety of modulation schemes, intuitive waveform editing software and remote control capabilities, enable versatile waveform generation of waveforms up to 160 MHz. The large color display and simple user interface make it easy to generate a wide range of waveforms.

#### High Performance and Signal Fidelity

High performance hardware enables WaveStation to create accurate stable waveforms. High sample rate and resolution combined with low jitter and harmonic distortion means waveforms seen on the display are accurately created and outputted by the hardware.

#### **Extensive Waveform Library**

Easily create basic sine, square, ramp, pulse, and noise waveforms. In addition, access over 40 advanced arbitrary waveforms preloaded on WaveStation. Edit waveforms using the WaveStation PC software with point-by-point manual waveform design or waveform drawing tools. Use digital filtering tools for advanced waveform creation.

### Connectivity and Communication

With standard USB and GPIB connectivity it is easy to control WaveStation remotely or integrate it in to a test system. All necessary I/O for synchronization can be accessed on the rear panel. A front panel USB port provides an easy way to save waveforms.

#### Simple, Fast Waveform Creation

The intuitive front panel provides easy access to waveforms, modulation and operating modes. The large display shows all relevant waveform parameters and waveform shape. Included PC software provides a graphical interface for quickly modifying waveforms with point-by-point editing, digital filtering and waveform drawing tools.

## **POWERFUL COMBINATION OF PERFORMANCE AND FLEXIBILITY**

#### 1. Dual Output

Two synchronous outputs for additional waveform flexibility and ability to create differential waveforms.

#### 2. Color Display

Large display provides a single view to see waveform preview, parameters and menus with a single glance.

#### 3. Waveform Preview

Helpful display provides preview of the waveform to be generated.

#### 4. USB Connectivity

Front panel USB port to quickly save and transfer waveforms.

#### 5. Display Menu

Quick access to various parameters with one touch to soft button on the front panel.



#### **Variety of Modulation Schemes**

Built-in modulation capabilities include AM, PM, FM, ASK, PSK and FSK. View the modulated waveform on the display and see how it changes when varying output frequency, carrier waveform or modulation type.





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## 6. On-Screen Parameter Readout

View all relevant parameters at the same time on a single screen.

### 7. Quick Waveform Access

Dedicated, backlit buttons for quick access to the most common waveforms.

#### 8. Easy to Use Front Panel

Intuitive front panel allows for quick waveform parameter entry and editing.

#### 9. Adjustable Handle

Easily adjust handle for easy transport, optimal viewing and comfortable use.

### **10. Connectivity**

All necessary I/O for synchronization can be accessed from rear panel.



#### **Graphical Waveform Creation**

Easily create and edit waveforms on the PC with mathematical operations, filters, and point-by-point editing or draw a waveform with a mouse. Transfer waveforms to WaveStation over USB and view it on the large display. Additionally, connecting a WaveAce oscilloscope to the same PC enables seamless transfer of real world signals from oscilloscope to the WaveStation.

	WaveStation 2012	WaveStation 2022	WaveStation 2052	WaveStation 3082	WaveStation 3122	WaveStation 3162		
Bandwidth	10 MHz	25 MHz	50 MHz	80 MHz	120 MHz	160 MHz		
Channels	2							
Waveforms	Sine, Sq	Sine, Square, Ramp, Pulse, Noise, Arbitrary: Stairup, Stairdown, Positive Pulse, Negative Pulse, Up Ramp, Down Ramp, Sinc, Gaussian, LogFall, LogRise, Sqrt, TwoTone, etc						
Waveform Characteristics								
Sine								
Frequency Range	1 µHz - 10 MHz	1 µHz - 25 MHz	1 µHz - 50 MHz	1 µHz - 80 MHz	1 μHz - 120 MHz	1 µHz - 160 MHz		
Harmonic Distortion		CH1 / CH2						
DC - 1 MHz		-60 dBc			< -56 dBc			
1 MHz - 5 MHz		-53 dBc			< -46 dBc			
5 MHz -10 MHz		NA			< -46 dBc			
10 MHz - 25 MHz		-35 dBc		< -35 dBc				
25 MHz - 50 MHz		-32 dBc			< -35 dBc			
50 MHz -100 MHz		NA			< -35 dBc			
100 MHz - 160 MHz		NA			< -26 dBc			
Total Harmonic Waveform Distortion	DC	- 20 kHz, 1 Vpp < 0	.2%	DC	<mark>: - 20 KHz, 1 Vpp &lt; C</mark>	.2%		
Spurious Signal (Non-harmonic)	D	C - 1 MHz, < -70 dB	C	DC - 160 N	1Hz, < -70 dBc + 20	dB / decade		
Spurious Signal (Non-harmonic)	1 MHz - 10 MHz,	< -70 dBc + 6 dB /	spectrum phase	DC - 160 N	1Hz, < -70 dBc + 20	dB / decade		
Phase Noise	10 kHz Offs	et, -108 dBc / Hz (ty	pical value)	100 kHz Off	set, -116 dBc / Hz (†	typical value)		
Square								
Frequency Range	1 µHz - 10 MHz	1 µHz -	25 MHz		1 μHz - 50 MHz			
Duty Cycle Range	20% - 80%	1 uHz - 10 MHz, 20% - 80% 0% 10 MHz - 20 MHz, 40% - 60% 20 MHz - 25 MHz, 50%		≤10 MHz, 20% - 80% 10 MHz - 40 MHz, 40 - 60% 40 MHz - 50 MHz, 50%				
Rise / Fall Time	<12 ns (10% - 90%)				< 6 ns (10% - 90%)			
Overshoot	< 5% (typical, 1 kHz, 1 Vpp)				< 3 %			
Asymmetric (50% Duty Cycle)	1% of period + 20 ns (typical, 1 kHz, 1 Vpp)		1% of perio	od + 5 ns (typical, 1	kHz, 1 Vpp)			
Jitter	0.4% of period (typical, 1 kHz, 1 Vpp)		DC -	1 MHz, ≤ 200 ps ± 2 MHz - 50 MHz, ≤ 500	2 ppm			
Pulse								
Frequency Range	500 μHz - 5 MHz		1 µHz - 40 MHz					
Duty Cycle Resolution		0.1 % resolution		0.0001% resolution				
Rise / Fall Time	7 ns (10% - 90% typical 1 kHz, 1 Vpp)		6 ns ~ 6 s, 100 ps resolution					
Pulse Width	Between 16 ns and 1,800 s		Between 12 ns and 1,000,000 s					
		1 ns resolution		100 ps resolution				
Overshoot	< 5%			< 3%				
Jitter	8 ns (pk - pk)			DC - 1 MHz, ≤ 200 ps ± 2 ppm 1 MHz - 50 MHz, ≤ 500 ps				
Triangle/Ramp								
Frequency Range		1 µHz - 300 kHz			1 µHz - 4 MHz			
Ramp Symmetry				100%				
Linearity		< 0.1% of peak	value output (typic	al, 1 kHz, 1 Vpp, 10	0% symmetric)			
Arbitrary Waveforms								
Frequency Range	1 µHz - 5 MHz			1 μHz - 40 MHz				
Waveform Length	16 kpts / Ch			Ch1: 16 Kpts Ch2: 16 Kpts or 512 Kpts				
Vertical Resolution			14	oits				
Sample Rate		125 MS/s		500 MS/s				
Min. Rise / Fall time		7 ns (typical)		6 ns				
Jitter (pk - pk)		8 ns (typical)			DC - 40 MHz, ≤ 2.1 ns ± 10 ppm			
Storage in Non-volatile RAM memory	10 waveforms 8 waveforms @ 512 kpts; 24 waveforms @			forms @ 16 kpts				

	WaveStation 2012	WaveStation 2022	WaveStation 2052	WaveStation 3082	WaveStation 3122	WaveStation 3162		
Modulation, Sweep, Burst Capabiliti	es					-		
Amplitude Modulation								
Source	Internal / External							
Carrier	Cine Causara	Sine, Square, Ramp, Arbitrary (except DC)						
Modulation Waveform	Sine, Square,	Sine, Square, Triangle, Ramp, Noise, Arbitrary (2 mHz - 20 kHz)Sine, Square, Triangle, Ramp, Noise, Arbitrary (1 mHz - 50 kHz)						
Modulation Depth			0% -	120%				
Modulation Resolution		0.1%			1 mHz			
Modulating Waveform Sample Clock @ Max Sampling Rate	3.90625 MHz							
Memory Size			4 k x	12 bit				
requency Modulation								
Source				/ External				
Carrier			Sine, Square, Ramp,	Arbitrary (except D	,			
Modulation Waveform	Sine, Square,	Ramp, Arbitrary (2	mHz - 20 kHz)	Sine, Square	, Triangle, Ramp, N (1 mHz - 50 kHz)	oise, Arbitrary		
Frequency Deviation	05	* BW, 10 uHz reso	lution	0	5* BW, 1 mHz resol	ution		
Frequency Resolution			1 r	nHz				
hase Modulation								
Source			Internal	/ External				
Carrier		ć	Sine, Square, Ramp,	Arbitrary (except D	C)			
Modulation Waveform	Sine, Square,	, Triangle, Ramp, No (2 mHz - 20 kHz)	oise, Arbitrary	Sine, Square	, Triangle, Ramp, N (1 mHz - 50 kHz)	oise, Arbitrary		
Phase Deviation	0 - 360 deg, 0.1 deg resolution							
SK Modulation				-				
Source			Internal	/ External				
Carrier		Ś	Sine, Square, Ramp,	Arbitrary (except D	C)			
Modulation Waveform	50% duty-cycle square waveform (2 mHz - 50 kHz) Sine, Square, Triangle, Ramp, Noise, 7 (1 mHz - 1 MHz)					oise, Arbitrary		
SK Modulation								
Source			Internal	/ External				
Carrier		S	Sine, Square, Ramp,	Arbitrary (except D	C)			
Modulation Waveform	50% duty-cycle	square waveform (	2 mHz - 50 kHz)	50% duty-cycle	square waveform	(1 mHz - 1 MHz)		
WM Modulation								
Source			Internal	/ External				
Frequency		2 mHz - 20 kHz			1 mHz - 50 kHz			
Modulation Waveform		Ş	Sine, Square, Ramp,	Arbitrary (except D	C)			
External Modulation	-6 V to +	-6 V (max without d	eviation)	-4.5 V to +4	4.5 V max (max wit	h deviation)		
Duty Cycle Modulating Frequency		2 mHz - 20 kHz			2 mHz - 50 kHz			
Duty Cycle Deviation	0% to 100%	of Pulse Width, 0.1	% resolution	10	0%*DutyCycle - 15	ns.		
weep								
Carrier		Ş	Sine, Square, Ramp,	Arbitrary (except D	C)			
Туре			Linear / L	ogarithmic				
Direction	Up / Down							
Sweep Time	1 ms - 500 s				1 ms - 500 s ± 0.1%	6		
Trigger Source			Manual, Exte	ernal, Internal				
Sweep Range @ Max Sample Rate	1 uHz to Ba	andwith frequency (	@ 125 MS/s	1 uHz to Ba	ndwidth frequency	@ 500 MS/s		
urst								
Waveform		Sine, Squ	are, Ramp, Pulse ar	d Noise, Arbitrary (e	except DC)			
Туре	Count (1 - !	50,000 Periods, Infi			,000,000 Periods) I	nfinite, Gated		
Start / Stop Phrase	,		,	360°				
Internal Period		1 µs - 500 s			1 us - 1000 s			
Gated Source			Externa	l Trigger				
Trigger Source				nal or Internal				

	WaveStation 2012	WaveStation 2022	WaveStation 2052	WaveStation 3082	WaveStation 3122	WaveStation 3162	
Channel Characteristics							
Output Connector			В	NC			
Output Impedance			50 <b>Ω</b> , High	Impedance			
External Clock							
Input Connector			В	NC			
Frequency Range		10 MHz ± 100 Hz			10 MHz ± 1 kHz		
Min Input Voltage		3.3 Vpp			2.3 V		
Sync Output							
Voltage Level		TTL compatible		VOH (min) > 4.5 V	/, VOL (max) < 0.5 V;	(IOL / IOH = 8 mA)	
Pulse Width			> 50 ns, no	t adjustable			
Output Impedance			50 Ω (	typical)			
Maximum Frequency		2 MHz			10 MHz		
Trigger Output							
Voltage Level		TTL compatible			CMOS compatible		
Pulse Width		> 400 ns			> 60 ns		
Output Impedance			50 Ω (	typical)			
Maximum Frequency				ЛНz			
Output Connector			Through I	Rear Panel			
	Ext Trig / Gate / FSK / Burst						
External Trigger							
Trigger Input Level	TTL compatible Note: The external input voltage can't be over ±6 V, otherwise instrument gets damaged CMOS compatible						
Trigger Slope			Up or dow	n (optional)			
Trigger Pulse Width	> 100 ns > 50 ns						
Trigger Input Impedance	$> 5 \text{ k}\Omega$ , DC coupling						
External Modulation	±6 V = 100% n	nodulation > 5 k $\Omega$ in	nput impedance	$\pm (4.5 \sim 5) V = 100^{\circ}$	$\pm$ (4.5 ~ 5)V = 100% modulation >10 k $\Omega$ input impedance		
External Trigger		TTL compatible			CMOS compatible		
Max. Voltage Input	Note: The external input voltage can't be over ±6 V, otherwise instrument gets damaged Input: 0 - 5 V		•				
Assignable to Both Channels 1 or 2, 1 AND 2			g in: Assignment Cł Trig out: Assignmen				
Max Frequency	Ext Trig in: 1 MHz		xternal Trig out: 1 M	Hz			
Input Latanay					Ch1 - 366 ± 30 nS		
Input Latency	< 300 ns CH2 - 386 ± 30 nS						
Polarity Selectable	Selectable, rising edge and falling edge						
General Characteristics							
Standard Interface		U	SB Host, USB Devic	e and GPIB (IEEE 48	88)		
Front Panel Connectors			Output BNC	and USB host			
Rear Panel Connectors		BNC and USB device					
Otata an Dawar On /Off	Calastable factory default (last state						

State on Power On/Off	Selectable factory default / last state					
Frequency Accuracy	Within 90 days ± 50 ppm within 1 year ±100 ppm 18° C ~ 28° C	±1 ppm / year				
Temperature Coefficient	< 5 ppm / °C	±1 ppm, 0° C ~ 55° C				

2 mVpp - 3 Vpp (50 µ)         40 MHz - 130 MHz 1 mVpp           4 mVpp - 6 Vpp (high impedance)         100 MHz - 130 MHz 1 mVpp           0 MHz - 100 MHz 1 mVpp         0 MHz - 100 MHz 1 mVpp           0 MHz - 100 MHz 1 mVpp         0 MHz - 100 MHz 1 mVpp           100 MHz - 100 MHz 1 mVpp         100 MHz - 100 MHz 1 mVpp           2 mVpp - 10 Vpp (50 Q, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           2 mVpp - 10 Vpp (50 Q, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           3 mVpp - 20 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 20 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 10 Vpp (100 HHz ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           2 mVpp - 10 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 10 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 10 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 10 Vpp (high impedance, ± 10 MHz)         100 MHz - 100 MHz 1 mVpp           4 mVpp - 10 Vpp (100 MHz ± 10 MHz)         100 MHz - 100 MHz = 10 MHz           4 mVpp - 10 Vpp (high impedance)         100 MHz - 100 MHz = 10 MHz           4 mVp - 10 Vpp (100 MHz ± 10 MZ + 10 MZ		veStation 2012	WaveStation 2022	WaveStation 2052	WaveStation 3082	WaveStation 3122	WaveStation 3162
Amplitude - CH1         40 C+414K2: 1 mVpp-10           Amplitude - CH1         40 MHz - + 100 MHz: 1 mVpp-100 MHz - + 100 MHz: 1 mVpp-20 Hz mVpp - 50 Vpp (high impedance, > 10 MHz)           Amplitude - CH2         2 mVpp - 10 Vpp (50 Ω, ≥ 10 MHz)         100 MHz - + 100 MHz: 1 mVpp-20 Hz mVpp - 50 Vpp (high impedance, > 10 MHz)           Amplitude - CH2         2 mVpp - 10 Vpp (50 Ω, ≥ 10 MHz)         100 MHz - + 100 MHz: 1 mVpp-20 Hz mVpp - 50 Vpp (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 mVpp - 20 Vpp (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 mVpp - 20 Vpp (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 mVpp - 20 Vpp (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 No Resolutiz: 1 mVpp - 20 Hz (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 No Resolutiz: 1 mVpp - 20 Hz (high impedance, > 10 MHz)           Amplitude Resolution         1 mV         4 No Resolutiz: 1 mVpp - 20 Hz (high impedance, > 10 MHz)           Compared to 100 kHz sine, 3 Vpp)         10 C to 35° C + 0.45 dB         - 10 MHz + 10 Ze (Hz HZ)           Compared to 100 kHz sine, 3 Vpp)         10 C to 35° C + 0.45 dB         - 20 mA           Compared t	iaracteristics (contd)						
Amplitude - CH2         U Mitz - 100 Mitz 1 mVpp 100 Mitz - 100 Mitz - 10	e - CH1	2 mVpp - 3 Vpp (50 Ω)		DC - < 40 MHz: 1 mVpp - 10 Vpp (50 Ω) 40 MHz - < 100 MHz: 1 mVpp - 5 Vpp (50 Ω) 100 MHz - < 130 MHz: 1 mVpp - 1.5 Vpp (50 Ω) 130 MHz - 160 MHz: 1 mVpp - 1.5 Vpp (50 Ω)			
$\begin{tabular}{ c c c c c } & Text{Prod} Vep (50 $ \Omega_{c} = 10 $ MHz r = 100 $ MHz r$		4 mVpp - 6 Vpp (high impedance)			DC - < 40 MHz: 1 mVpp - 20 Vpp (Hi Z) 40 MHz - < 100 MHz: 1 mVpp - 10 Vpp (Hi Z) 100 MHz - < 130 MHz: 1 mVpp - 2.7 Vpp (Hi Z) 130 MHz - 160 MHz: 1 mVpp - 2.2 Vpp (Hi Z)		
Amplitude Resolution         1 mV           Vertical Accuracy (Compared to 100 kHz sine)         15° C to 40° C, ≤ 40 MHz; ± (2 mV + 0.4 dB) Less than 15° C, > 40 WHz; ± (2 mV + 0.65 dB)         (add 1/30th of output amplitude and speficiation per deg C for tempe aspeficiation per deg C for tempe aspef		2 mVpp 4 mVpp - 20 Vp	- 5 Vpp (50 $\Omega$ , > 10 pp (high impedance	0 MHz) ce, ≤ 10 MHz)	DC - < 40 40 MHz - < 1 100 MHz - < 1 130 MHz - 1 DC - < 40 40 MHz - < 1 100 MHz - <	MHz: 1 mVpp - 10 <sup>1</sup> 100 MHz: 1 mVpp - 130 MHz: 1 mVpp - 60 MHz: 1 mVpp - 1 MHz: 1 mVpp - 20 00 MHz: 1 mVpp - 130 MHz: 1 mVpp -	Vpp (50 Ω) 5 Vpp (50 Ω) 1.5 Vpp (50 Ω) .5 Vpp (50 Ω) Vpp (Hi Ζ) 10 Vpp (Hi Ζ) 2.7 Vpp (Hi Ζ)
Vertical Accuracy (Compared to 100 kHz sine)         15° C to 40° C, ≤ 40 MHz; ± (2 mV + 0.46 dB)         (add 1/30th of output implifuede a spelification per deg. for tempe 18.28 deg C)           Amplitude Flatness (Compared to 100 kHz sine, 3 Vpp)         10° C to 35° C; ± 0.45 dB         ≤ 10 MHz; ± 0.1 C ≤ 80 MHz; ± 0.2 C           Cross Talk         < 70 dBc	e Resolution			11		<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>
Amplitude Flatness (Compared to 100 kHz sine, 3 Vpp)10° C to 35° C: 4.0.45 dB All other cases: 4.0.9 dB $\leq 80$ MHz ± 0.2 c $\leq 160$ MHz ± 0.2 d(Compared to 100 kHz sine, 3 Vpp)All other cases: 4.0.9 dB $\leq 100$ MHz ± 0.2 d(Cross Talk<-70 dBc			· · · · · · · · · · · · · · · · · · ·	,	(add 1/30th of o	utput amplitude an er deg C for tempera 18 - 28 deg C)	d offset accuracy aturs outside of
Output Current Max - Ch 1 only $\pm$ 60 mA $\pm$ 200 mAOutput ConnectorBNCDC OffsetBNCCoffset $\pm$ 1.5 V (50 $\Omega$ )Range DC - CH1 $\pm$ 1.5 V (50 $\Omega$ )Range (DC) - Ch2 $\pm$ 1.5 V (50 $\Omega$ ) $\pm$ 10 V (high impedance) $\pm$ 10 V (high impedance)Offset Accuracy $\pm$ ([setting offset value]*1% + 3 mV)Resolution1 mV0.1 mV0.1 mVWaveform Output1 mVImpedance50 $\Omega$ (typical), High ZProtectionShort-circuit protectionDimensions (H x W x D)105 mm x 229 mm x 281 mm (4.1* x 9.0" x 11.1")Valage100 - 240 Vms (± 10%), 50 / 60 HzVoltage100 - 240 Vms (± 10%), 50 / 60 HzConsumption (nominal)50 W MaxEnvironment-20° C to 40° CTemperature - Operating0° C to 40° CTemperature - Operating5% to 90% relative humidity (non-condensing) up to +30° CHumidity Range - Operating5% to 90% relative humidity (non-condensing) as t+40° CHumidity Range - Operating5% to 90% relative humidity (non-condensing) up to +30° CAltitude - Non-operating5% to 90% relative humidity (non-condensing) up to +30° CAltitude - Non-operating5% to 90% relative humidity (non-condensing) up to +30° CAltitude - Non-operatingUp to 15,000 meters (49,200 ft)					≤ 10 MHz ± 0.1 dB ≤ 80 MHz ± 0.2 dB ≤ 160 MHz ± 0.3 dB		
Output Current Max - Ch 2 only $\pm$ 200 mA $\pm$ 200 mAOutput ConnectorBNCDC OffsetRange DC - CH1 $\pm$ 1.5 V (50 $\Omega$ )Range (DC) - Ch2 $\pm$ 5 V (50 $\Omega$ )Offset Accuracy $\pm$ 10 V (high impedance)Offset Accuracy $\pm$ ((setting offset value)*1% + 3 mV)Resolution1 mV0.1 mVWaveform OutputImpedance50 $\Omega$ (typical), High ZProtectionDisplayCharacteristics3.5 inch TFT-LCD, 320 x 240, RGB4.3 inch TFT-LCD, 480 x 3Physical Characteristics0DisplayCharacteristics000.1 mx 229 mm x 281 mm (4.1" x 9.0" x 11.1")105 mm x 261 mm x 344 mm (4.1" weight2.6 kg (5.7 lbs)2.8 kg (6.1 lbs)PowerVoltage100 - 240 V <sub>rms</sub> (± 10%), 50 / 60 HzConsumption (nominal)EnvironmentEnvironmentIemperature - Operating0% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - Operating0% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - Non-operating5% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - Non-operating0% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - Non-operating0% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - Non-operating0% to 90% relative humidity (non-condensing) at ±40° CHumidity Range - N	lk		< -70 dBc			< -60 dB	
Output ConnectorBNCDC Offset $\pm 1.5 \vee (50 \ \Omega)$ $\pm 5 \vee (50 \ \Omega)$ Range DC - CH1 $\pm 3 \vee (high impedance)$ $\pm 10 \vee (high impedance)$ Range (DC) - Ch2 $\pm 10 \vee (high impedance)$ $\pm 10 \vee (high impedance)$ Offset Accuracy $\pm (lsetting offset value *1% + 3 mV)$ $\pm (lsetting offset value *1% + 3 mV)$ Resolution1 mV0.1 mVWaveform Output1 mV0.1 mVImpedance $50 \Omega (typical), High Z$ ProtectionShort-circuit protectionDisplayCharacteristicsCharacteristics $3.5$ inch TFT-LCD, $320 \times 240$ , RGBPhysical Characteristics $105 \text{ mm} \times 229 \text{ mm} \times 281 \text{ mm} (4.1" \times 9.0" \times 11.1")$ Ibmensions (H × W × D)105 mm × 229 mm × 281 mm (4.1" × 9.0" × 11.1")Power $100 - 240 \text{ Vrms} (\pm 10\%), 50 / 60 \text{ Hz}$ Voltage $100 - 240 \text{ Vrms} (\pm 10\%), 50 / 60 \text{ Hz}$ Consumption (nominal) $50 \text{ W Max}$ Environment $-20^{\circ} \text{ C} \text{ to } 40^{\circ} \text{ C}$ Temperature - Operating $0^{\circ} \text{ C} \text{ to } 0^{\circ} \text{ C}$ Humidity Range - Operating $5\%$ to $90\%$ relative humidity (non-condensing) up to $+30^{\circ} \text{ C}$ Upper limit derates to $50\%$ relative humidity (non-condensing) at $\pm 40^{\circ} \text{ C}$ Humidity Range - Non-operating $3,048 \text{ m} (10,000 \text{ ft}) \text{ max at } \leq 30^{\circ} \text{ C}Altitude - Non-operatingUp to 15,000 meters (49,200 ft)$			± 60 mA				
DC OffsetRange DC - CH1 $\pm 1.5 V (50 \Omega)$ $\pm 5 V (50 \Omega)$ Range DC - CH2 $\pm 3 V (high impedance)$ $\pm 10 V (high impedance)$ Offset Accuracy $\pm (lsetting offset valuel*1% + 3 mV)$ $\pm (lsetting offset valuel*1%)$ Resolution1 mV0.1 mVWaveform Output1 mV0.1 mVImpedance50 $\Omega$ (typical), High ZProtectionShort-circuit protectionDisplayCharacteristics3.5 inch TFT+LCD, 320 x 240, RGB4.3 inch TFT+LCD, 480 x 2Physical Characteristics05 mm x 229 mm x 281 mm (4.1" x 9.0" x 11.1")105 mm x 261 mm x 344 mm (4.1" x 9.0" x 11.1")Dimensions (H x W x D)105 mm x 229 mm x 281 mm (4.1" x 9.0" x 11.1")105 mm x 261 mm x 344 mm (4.1" x 9.0" x 11.1")Voltage100 - 120 V <sub>rms</sub> (± 10%), 50 / 60 Hz2.8 kg (6.1 lbs)Power100 - 120 V <sub>rms</sub> (± 10%), 400 Hz50 W MaxEnvironment50 W Max2.0 ° C to 40° CTemperature - Operating0° C to 40° C2.0° C to 60° CHumidity Range - Operating5% to 90% relative humidity (non-condensing) up to +30° CUpper limit derates to 50% relative humidity (non-condensing) up to +30° CHumidity Range - Non-operating5% to 95% relative humidity (non-condensing) up to +30° CAltitude - Non-operating3,048 m (10,000 ft) max at ≤ 30° CAltitude - Non-operating040 sto 200	, , , , , , , , , , , , , , , , , , , ,		± 200 mA			± 200 mA	
Range DC - CH1 $\pm 1.5 \vee (50 \ \Omega)$ $\pm 3 \vee (high impedance)$ $\pm 5 \vee (50 \ \Omega)$ $\pm 10 \vee (high impedance)$ Range (DC) - Ch2 $\pm 5 \vee (50 \ \Omega)$ $\pm 10 \vee (high impedance)$ Offset Accuracy $\pm ( setting offset value *1% + 3 mV)$ $\pm 5 \vee (50 \ \Omega)$ $\pm 10 \vee (high impedance)$ Offset Accuracy $\pm ( setting offset value *1% + 3 mV)$ $\pm ( setting offset value *1% + 3 mV)$ Resolution1 mV0.1 mVWaveform OutputImpedance $50 \ \Omega$ (typical), High ZProtectionShort-circuit protectionDisplayCharacteristics $3.5 \operatorname{inch TFT-LCD}, 320 \times 240, RGB$ $4.3 \operatorname{inch TFT-LCD}, 480 \times 25$ Physical Characteristics $0.5 \operatorname{inch TFT-LCD}, 320 \times 240, RGB$ $4.3 \operatorname{inch TFT-LCD}, 480 \times 25$ Dimensions (H x W x D) $105 \operatorname{mm x} 229 \operatorname{mm x} 281 \operatorname{mm} (4.1" x 9.0" x 11.1")$ $105 \operatorname{mm x} 344 \operatorname{mm} (4.100 \times 100 \times 120 $	onnector			BI	NC		
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Waveform Output         Impedance $50 \ \Omega$ (typical), High Z         Protection       Short-circuit protection         Display       Characteristics $3.5 \text{ inch TFT-LCD, } 320 \times 240, RGB$ $4.3 \text{ inch TFT-LCD, } 480 \times 240 \times 240, RGB$ Physical Characteristics       Dimensions (H x W x D) $105 \text{ mm x } 229 \text{ mm x } 281 \text{ mm } (4.1" x 9.0" x 11.1")$ $105 \text{ mm x } 261 \text{ mm x } 344 \text{ mm } (4.100 \times 260 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (4.100 \times 200 \text{ mm } x 344 \text{ mm } (100 \times 200 \text{ mm } x 344 \text{ mm } (100 \times 200 \text{ mm } x 344 \text{ mm } (100 \times 200 \text{ mm } x 340 \text{ mm } (10000 \text{ mm } x x 4 \times 300 \text{ mm } (100 \times 200 \text$	curacy	±(lsetting	g offset value *1%	+ 3 mV)	±( setti	ng offset value *1%	+ 2 mV)
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Protection       Short-circuit protection         Display       Characteristics       3.5 inch TFT-LCD, 320 x 240, RGB       4.3 inch TFT-LCD, 480 x 2         Physical Characteristics       Physical Characteristics       4.3 inch TFT-LCD, 480 x 2         Dimensions (H x W x D)       105 mm x 229 mm x 281 mm (4.1" x 9.0" x 11.1")       105 mm x 261 mm x 344 mm (4.         Weight       2.6 kg (5.7 lbs)       2.8 kg (6.1 lbs)         Power       100 - 240 Vrms (± 10%), 50 / 60 Hz       2.8 kg (6.1 lbs)         Voltage       100 - 120 Vrms (± 10%), 50 / 60 Hz       2.8 kg (6.1 lbs)         Consumption (nominal)       50 W Max       Environment       2.8 kg (6.1 lbs)         Environment       0° C to 40° C       Consumption (nominal)       50 W Max         Environment       0° C to 40° C       Consumption (nominal)       50 W Max         Humidity Range - Operating       0° K to 90% relative humidity (non-condensing) up to +30° C       Upper limit derates to 50% relative humidity (non-condensing) at +40° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-2880C         Altitude - Operating       3.048 m (10,000 ft) max at ≤ 30° C       Altitude - Non-operating       3.048 m (10,000 ft) max at ≤ 30° C	•						
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Weight       2.6 kg (5.7 lbs)       2.8 kg (6.1 lbs)         Power       100 - 240 V <sub>rms</sub> (± 10%), 50 / 60 Hz       100 - 120 V <sub>rms</sub> (± 10%), 400 Hz         Voltage       100 - 120 V <sub>rms</sub> (± 10%), 400 Hz       50 W Max         Environment       50 W Max       50 W Max         Emperature - Operating       0° C to 40° C       -20° C to 60° C         Humidity Range - Operating       5% to 90% relative humidity (non-condensing) up to +30° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) at ±40° C         Altitude - Operating       3,048 m (10,000 ft) max at ≤ 30° C         Altitude - Non-operating       Up to 15,000 meters (49,200 ft)		-					
Power       100 - 240 V <sub>rms</sub> (± 10%), 50 / 60 Hz         Voltage       100 - 120 V <sub>rms</sub> (± 10%), 400 Hz         Consumption (nominal)       50 W Max         Environment       0° C to 40° C         Temperature - Operating       0° C to 60° C         Humidity Range - Operating       5% to 90% relative humidity (non-condensing) up to +30° C         Upper limit derates to 50% relative humidity (non-condensing) at +40° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) at ested per MIL-PRF-2880C         Altitude - Operating       3,048 m (10,000 ft) max at ≤ 30° C         Altitude - Non-operating       Up to 15,000 meters (49,200 ft)	s (H x W x D) 10	<u>15 mm x 229 m</u>		<u>" x 9.0" x 11.1")</u>	105 mm x 261		<u>" x 10.3" x 13.5")</u>
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Consumption (nominal)       100 - 120 V <sub>rms</sub> (± 10%), 400 H2         Consumption (nominal)       50 W Max         Environment       0° C to 40° C         Temperature - Operating       0° C to 60° C         Humidity Range - Operating       5% to 90% relative humidity (non-condensing) up to +30° C         Upper limit derates to 50% relative humidity (non-condensing) at +40° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-2880C         Altitude - Operating       3,048 m (10,000 ft) max at ≤ 30° C         Altitude - Non-operating       Up to 15,000 meters (49,200 ft)							
Temperature - Operating       0° C to 40° C         Temperature - Storage       -20° C to 60° C         Humidity Range - Operating       5% to 90% relative humidity (non-condensing) up to +30° C         Upper limit derates to 50% relative humidity (non-condensing) at +40° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800         Altitude - Operating       3,048 m (10,000 ft) max at ≤ 30° C         Up to 15,000 meters (49,200 ft)       Up to 15,000 meters (49,200 ft)	on (nominal)	100 - 120 V <sub>rms</sub> (± 10%), 400 Hz					
Temperature - Operating       0° C to 40° C         Temperature - Storage       -20° C to 60° C         Humidity Range - Operating       5% to 90% relative humidity (non-condensing) up to +30° C         Upper limit derates to 50% relative humidity (non-condensing) at +40° C         Humidity Range - Non-operating       5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800         Altitude - Operating       3,048 m (10,000 ft) max at ≤ 30° C         Up to 15,000 meters (49,200 ft)       Up to 15,000 meters (49,200 ft)	× /						
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Compliance CE Compliant UL and cUL listed	ce in the second se			OF Operatives 1	Londel Liter		

## **ORDERING INFORMATION**

Product Description	Product Code
WaveStation Function/Arbitrary Waveform Gene	erators
10 MHz, 2 Ch, 14 bit, 125 MS/s Function/Arbitrary Waveform Generator	WaveStation 2012
25 MHz, 2 Ch, 14 bit, 125 MS/s Function/Arbitrary Waveform Generator	WaveStation 2022
50 MHz, 2 Ch, 14 bit, 125 MS/s Function/Arbitrary Waveform Generator	WaveStation 2052
80 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator	WaveStation 3082
120 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator	WaveStation 3122
160 MHz, 2 Ch, 14 bit, 500 MS/s Function/Arbitrary Waveform Generator	WaveStation 3162

Product Description	Product Code
Included with Standard Configuration	
Power Cable for the Destination Country	
USB 2.0 Cable Type A to B (Black, 1 m)	
USB to GPIB Converter	
Getting Started Manual	
Performance Certificate	
Declaration of Conformity	
Product Registration Card	

#### Accessories

Rack Mount Kit for WaveStation 2000 / 3000

WSTA-RACK

#### **Customer Service**

Teledyne LeCroy instruments are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our waveform generators are fully warranted for three years.

This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge

For more information, please contact:





1-800-5-LeCroy teledynelecroy.com

#### Local sales offices are located throughout the world. Visit our website to find the most convenient location.

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