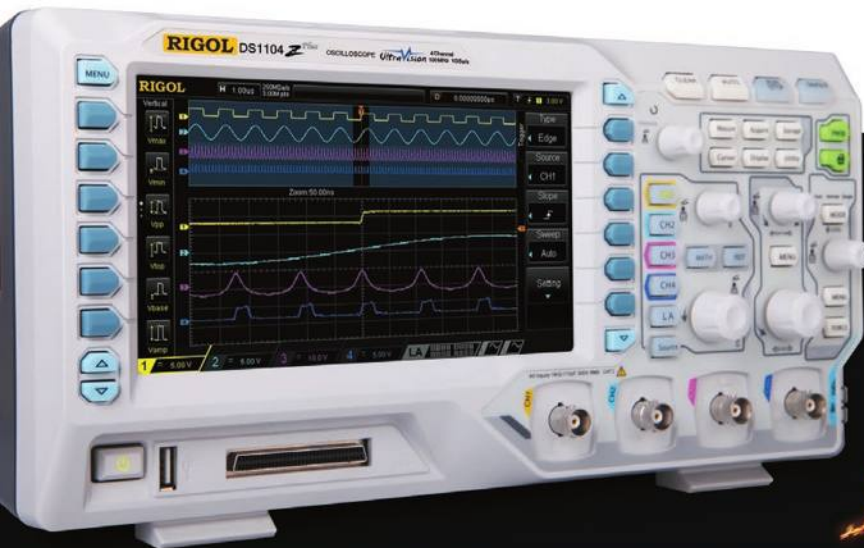


# RIGOL



## DS1000Z Series Digital Oscilloscope

UltraVision

- Analog channel bandwidth: 100 MHz, 70 MHz, 50 MHz
- 4 analog channels, 16 digital channels (only available for DS1000Z Plus that has been upgraded with the MSO upgrade option)
- Real-time sample rate up to 1 GSa/s
- Memory depth up to 24 Mpts
- Up to 30,000 wfms/s waveform capture rate
- Up to 60,000 frames hardware real-time waveform recording and playback functions
- Innovative "UltraVision" technology
- Various trigger and bus decoding functions
- Low noise floor, vertical scale range: 1 mV/div to 10 V/div
- Built-in dual-channel 25 MHz function/arbitrary waveform generator (only for digital oscilloscope with source channels)
- Various interfaces: USB Host&Device, LAN (LXI), AUX
- Compact size, light weight, easy to use
- 7 inch WVGA (800x480) TFT LCD, intensity graded color display

DS1000Z series is a high-performance and economic digital oscilloscope designed for the designing, debugging and educational requirements of the mainstream digital oscilloscope market. Wherein, the mixed signal digital oscilloscope aimed at the embedded design and test fields is equipped with 16 digital channels and allows users to measure analog and digital signals at the same time.

# DS1000Z Series Digital Oscilloscope

7 inch WVGA (800X480) TFT display, intensity graded color display



Built-in source control key (digital oscilloscope with source channels)

16 digital channels (only available when DS1000Z Plus has been upgraded)

4 analog channels



Product Dimensions: Width×Height×Depth=313.1 mm×160.8 mm×122.4 mm  
Weight: 3.2 kg ± 0.2 kg(Without Package)

## ► Innovative UltraVision Technology(Analog Channel)



- Deep Memory Depth (up to 24 Mpts)
- Higher Waveform Capture Rate (up to 30,000 wfms/s)
- Real-time Waveform Recording&Playback (up to 60,000 frames)
- Intensity Graded Color Display

## ► Models and Key Specifications

Model	DS1054Z	DS1074Z Plus	DS1074Z-S Plus	DS1104Z Plus	DS1104Z-S Plus
Analog BW	50 MHz	70 MHz		100 MHz	
Number of Analog Channels	4				
Number of Digital Channels	None	DS1000Z Plus supports 16 digital channels after being upgraded with the MSO upgrade option.			
Max. Real-time Sample Rate	Analog channel: 1 GSa/s(single-channel), 500 MSa/s(dual-channel), 250 MSa/s(three/four-channel) Digital channel: 1 GSa/s (8-channel), 500 MSa/s (16-channel)				
Max. Memory Depth	Analog channel: standard 24 Mpts (single-channel), 12 Mpts (dual-channel), 6 Mpts (3/4-channel) Digital channel: standard 24 Mpts (8-channel), 12 Mpts (16-channel)				
Max. Waveform Capture Rate	30,000 wfms/s				
Hardware Real-time Waveform Recording and Playback Functions	Up to 60,000 frames				
Standard Probes	4 sets of PVP3150 150 MHz Passive HighZ Probes				
Built-in 2Ch 25MHz Source	No		Yes	No	Yes

## ► Features and Benefits

4 analog channels, 16 digital channels (only available when DS100Z Plus has been upgraded with the MSO upgrade option)



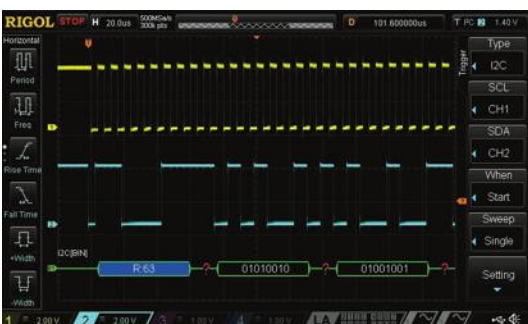
UltraVision: up to 30,000 wfms/s waveform capture rate



UltraVision: waveform recording and playback functions



Serial bus trigger and decoding functions (RS232/UART, I2C, SPI)



UltraVision: deep memory (up to 24 Mpts)



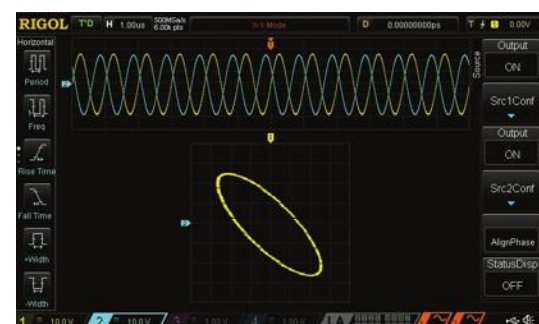
UltraVision: intensity graded color display



A variety of trigger functions



Built-in dual-channel 25 MHz source (DS1XX4Z-S Plus)



\*Do not include the 50 MHz bandwidth model



## ► Mixed Signal Digital Oscilloscope



\*Do not include the 50 MHz bandwidth model

The mixed signal digital oscilloscope also provides the following functions:

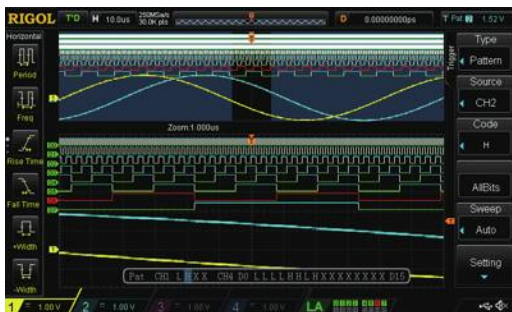
- 16 digital channels available when DS1000Z Plus has been upgraded
- Sample rate of digital channel up to 1 GSa/s
- Memory depth of digital channel up to 24 Mpts
- Waveform capture rate of digital channel up to 30,000 wfms/s
- Hardware real-time waveform recording and playback functions, up to 60,000 frames can be recorded
- Trigger and decoding of the analog and digital channels at the same time
- Easy grouping and group operation of the digital channels
- Support a variety of logic levels
- Trigger across the analog and digital channels
- Time correlated display and analysis for both the analog and digital channel waveforms

Innovative UltraVision Technology (Digital Channel)

UltraVision

- Deep memory depth (up to 24 Mpts)
- Higher waveform capture rate (up to 30,000 wfms/s)
- Real-time waveform recording and playback functions (up to 60,000 frames)
- Intensity graded color display

Mixed signal analysis with analog and digital channels



Easy to be grouped and labeled for digital channels



Deep memory depth for the digital channels, serial bus trigger and decoding on digital channels







Supports a variety of logic levels












# RIGOL Probes and Accessories Supported by DS1000Z Series

## ► RIGOL Passive Probes

Model Number	Type	Description
 PVP3150	High Z Probe	1X: DC to 20 MHz 10X: DC to 150 MHz Compatibility: all <b>RIGOL</b> scopes.
 PVP2350	High Z Probe	1X: DC to 35 MHz 10X: DC to 350 MHz Compatibility: all <b>RIGOL</b> scopes.
 RP3500A	High Z Probe	DC to 500 MHz Compatibility: all <b>RIGOL</b> scopes.
 RP1300H	High Voltage Probe	DC to 300 MHz CAT I 2000 V (DC+AC), CAT II 1500 V (DC+AC) Compatibility: all <b>RIGOL</b> scopes.
 RP1010H	High Voltage Probe	DC to 40 MHz DC: 0 to 10 kV DC, AC: pulse $\leq 20$ kVp-p, AC: sine wave $\leq 7$ kVrms Compatibility: all <b>RIGOL</b> scopes.
 RP1018H	High Voltage Probe	DC to 150 MHz DC+AC Peak: 18 kV CAT II AC RMS: 12 kV CAT II Compatibility: all <b>RIGOL</b> scopes.
 RPL1116	Logic Analysis Probe	Logic analysis probe (for mixed signal digital oscilloscope)
 RT50J	Adapter	50 $\Omega$ impedance adapter (2 W, 1 GHz)

## ► RIGOL Active & Current Probes

Model Number	Type	Description
 RP1001C	Current Probe	BW: DC to 300 kHz Max. input DC: $\pm 100$ A, AC P-P: 200 A, AC RMS: 70 A Compatibility: all <b>RIGOL</b> scopes.
 RP1002C	Current Probe	BW: DC to 1 MHz Max. input DC: $\pm 70$ A, AC P-P: 140 A, AC RMS: 50 A Compatibility: all <b>RIGOL</b> scopes.
 RP1003C	Current Probe	BW: DC to 50 MHz Max. input AC P-P: 50 A (Noncontinuous), AC RMS: 30 A Compatibility: all <b>RIGOL</b> scopes. Must order RP1000P power supply.
 RP1004C	Current Probe	BW: DC to 100 MHz Max. input AC P-P: 50 A (Noncontinuous), AC RMS: 30 A Compatibility: all <b>RIGOL</b> scopes. Must order RP1000P power supply.
 RP1005C	Current Probe	BW: DC to 10 MHz Max. input AC P-P: 300 A (Noncontinuous), 500 A (@pulse width $\leq 30$ us), AC RMS: 150 A Compatibility: all <b>RIGOL</b> scopes. Must order RP1000P power supply.
 RP1000P	Power Supply	Power supply for RP1003C, RP1004C and RP1005C, support 4 channels.
 RP1025D	High Voltage Differential Probe	BW: 25 MHz Max. Voltage $\leq 1400$ Vpp Compatibility: all <b>RIGOL</b> scopes.
 RP1050D	High Voltage Differential Probe	BW: 50 MHz Max. Voltage $\leq 7000$ Vpp Compatibility: all <b>RIGOL</b> scopes.
 RP1100D	High Voltage Differential Probe	BW: 100 MHz Max. Voltage $\leq 7000$ Vpp Compatibility: all <b>RIGOL</b> scopes.

## ► Specifications

All the specifications are guaranteed except parameters marked with "Typical" and the oscilloscope needs to operate for more than 30 minutes under the specified operation temperature.

### Sample

Sample Mode	Real-time sample
Real-time Sample Rate	<b>Analog channel:</b> 1 GSa/s (single-channel), 500 MSa/s (dual-channel), 250 MSa/s (three/four-channel) <b>Digital channel:</b> 1 GSa/s (8-channel), 500 MSa/s (16-channel)
Peak Detect	<b>Analog channel:</b> 4 ns <b>Digital channel:</b> 4 ns
Averaging	After all the channels finish N samples at the same time, N can be 2, 4, 8, 16, 32, 64, 128, 256, 512 or 1024.
High Resolution	12 bit (max.)
Interpolation	Sin(x)/x (optional)
Minimum Detect Pulse Width	<b>Digital channel:</b> 10 ns
Memory Depth	<b>Analog channel:</b> 24 Mpts (single-channel), 12 Mpts (dual-channel), 6 Mpts (three/four-channel) <b>Digital channel:</b> 24 Mpts (8-channel), 12 Mpts (16-channel)

### Input

Number of Channels	DS1XX4Z Plus/1XX4Z-S Plus: 4 analog channels, 16 digital channels available after upgrade DS1054Z: 4 analog channels
Input Coupling	DC, AC or GND
Input Impedance	<b>Analog channel:</b> (1 MΩ±1%)    (15 pF±3 pF) <b>Digital channel:</b> (100 kΩ±1%)    8 pF±3 pF
Probe Attenuation Coefficient	<b>Analog channel:</b> 0.01X to 1000X, in 1-2-5 step
Maximum Input Voltage (1 MΩ)	<b>Analog channel:</b> CAT I 300 Vrms, CAT II 100 Vrms, transient overvoltage 1000 Vpk <b>Digital channel:</b> CAT I 40 Vrms, transient overvoltage 800 Vpk

### Horizontal

Timebase Scale	5 ns/div to 50 s/div
Maximum Record Length	24 Mpts
Timebase Accuracy <sup>[1]</sup>	≤ ± 25 ppm
Clock Drift	≤ ± 5 ppm/year
Maximum Delay Range	Negative delay: 1/2 (Memory Depth/Sample Rate) Positive delay: 1 s to 500 s
Timebase Mode	YT, XY, Roll
Number of X-Ys	1
Waveform Capture Rate <sup>[2]</sup>	30,000 wfms/s (dots display)
Zero Offset	±0.5div*minimum time base scale

### Vertical

Bandwidth (-3dB)	DS1104Z Plus/1104Z-S Plus: DC to 100 MHz DS1074Z Plus/1074Z-S Plus: DC to 70 MHz DS1054Z: DC to 50 MHz
Single-shot Bandwidth	DS1104Z Plus/1104Z-S Plus: DC to 100 MHz DS1074Z Plus/1074Z-S Plus: DC to 70 MHz DS1054Z: DC to 50 MHz
Vertical Resolution	<b>Analog channel:</b> 8 bits <b>Digital channel:</b> 1 bit

Vertical Scale (Probe ratio is 1X)	1 mV/div to 10 V/div
Offset Range (Probe ratio is 1X)	1 mV/div to 499 mV/div: $\pm 2$ V 500 mV/div to 10 V/div: $\pm 100$ V
Bandwidth Limit <sup>[1]</sup>	20 MHz
Low Frequency Response (AC coupling, -3dB)	$\leq 5$ Hz (on BNC)
Calculated Rise Time <sup>[1]</sup>	DS1104Z Plus/1104Z-S Plus: 3.5 ns DS1074Z Plus/1074Z-S Plus: 5 ns DS1054Z: 7 ns
DC Gain Accuracy	<10 mV: $\pm 4\%$ full scale $\geq 10$ mV: $\pm 3\%$ full scale
DC Offset Accuracy	$\pm 0.1$ div $\pm 2$ mV $\pm 1\%$ offset
Channel to Channel Isolation	DC to maximum bandwidth: >40 dB

### Vertical (Digital Channel)(Applicable to DS1000Z Plus with MSO Upgrade Option)

Threshold	Adjustable threshold of 8 channels per group
Threshold Selection	TTL (1.4 V)
	5.0 V CMOS (+2.5 V), 3.3 V CMOS (+1.65 V)
	2.5 V CMOS (+1.25 V), 1.8 V CMOS (+0.9 V)
	ECL (-1.3 V)
	PECL (+3.7 V)
	LVDS (+1.2 V)
	0 V
	User
Threshold Range	$\pm 15.0$ V, in 10 mV step
Threshold Accuracy	$\pm(100$ mV + 3% of threshold setting)
Dynamic Range	$\pm 10.0$ V + threshold
Minimum Voltage Swing	500 mVpp
Vertical Resolution	1 bit

### Trigger

Trigger Level Range	$\pm 5$ div from the center of the screen
Trigger Mode	Auto, Normal, Single
Holdoff Range	16 ns to 10 s
High Frequency Rejection <sup>[1]</sup>	75 kHz
Low Frequency Rejection <sup>[1]</sup>	75 kHz
Trigger Sensitivity <sup>[1]</sup>	1.0 div (below 5 mV or noise rejection is enabled) 0.3 div (above 5 mV and noise rejection is disabled)
<b>Edge Trigger</b>	
Edge Type	Rising, Falling, Rising/Falling
<b>Pulse Trigger</b>	
Pulse Condition	Positive Pulse Width (greater than, lower than, within specified interval) Negative Pulse Width (greater than, lower than, within specified interval)
Pulse Width	8 ns to 10 s
<b>Runt Trigger</b>	
Pulse Width Condition	None, >, <, <>
Polarity	Positive, Negative
Pulse Width Range	8 ns to 10 s
<b>Window Trigger</b>	
Windows Type	Rising, Falling, Rising/Falling
Trigger Position	Enter, Exit, Time
Windows Time	8 ns to 10 s
<b>Nth Edge Trigger</b>	

Edge Type	Rising, Falling
Idle Time	16 ns to 10 s
Edge Number	1 to 65535
Slope Trigger	
Slope Condition	Positive Slope (greater than, lower than, within specified interval) Negative Slope (greater than, lower than, within specified interval)
Time Setting	8 ns to 10 s
Video Trigger	
Signal Standard	NTSC, PAL/SECAM, 480P, 576P
Pattern Trigger	
Pattern Setting	H, L, X, Rising, Falling
Delay Trigger	
Edge Type	Rising, Falling
Delay Type	>, <, <>, ><
Delay Time	8 ns to 10 s
TimeOut Trigger	
Edge Type	Rising, Falling, Rising/Falling
TimeOut Value	16 ns to 10 s
Duration Trigger	
Pattern	H, L, X
Trigger Condition	>, <, <>
Duration Time	8 ns to 10 s
Setup/Hold Trigger	
Edge Type	Rising, Falling
Data Pattern	H, L
Setup Time	8 ns to 1 s
Hold Time	8 ns to 1 s
RS232/UART Trigger	
Polarity	Normal, Invert
Trigger Condition	Start, Error, Check Error, Data
Baud Rate	2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps, 230400 bps, 460800 bps, 921600 bps, 1 Mbps and User
Data Bits	5 bits, 6 bits, 7 bits, 8 bits
I2C Trigger	
Trigger Condition	Start, Restart, Stop, Missing Ack, Address, Data, A&D
Address Bits	7 bits, 8 bits, 10 bits
Address Range	0 to 127, 0 to 255, 0 to 1023
Byte Length	1 to 5
SPI Trigger	
Trigger Condition	Timeout, CS
Timeout Value	16 ns to 10 s
Data Bits	4 bit to 32 bit
Data Line Setting	H, L, X

## Measure

Cursor	Manual mode	Voltage deviation between cursors ( $\Delta V$ ) Time deviation between cursors ( $\Delta T$ ) Reciprocal of $\Delta T$ (Hz) ( $1/\Delta T$ )
	Track mode	Voltage and time values of the waveform point
	Auto mode	Allow to display cursors during auto measurement



Auto Measurement	Analog channel: Period, Frequency, Rise Time, Fall Time, Positive Pulse Width, Negative Pulse Width, Positive Duty Cycle, Negative Duty Cycle, tVmax, tVmin, Positive Rate, Negative Rate, Delay 1→2 $f$ , Delay 1→2 $\tau$ , Phase 1→2 $f$ , Phase 1→2 $\tau$ , Maximum, Minimum, Peak-Peak Value, Top Value, Bottom Value, Amplitude, Upper Value, Middle Value, Lower Value, Average, Vrms, Overshoot, Pre-shoot, Area, Period Area, Period Vrms, Variance Digital channel: Period, Frequency, Positive Pulse Width, Negative Pulse Width, Positive Duty Cycle, Negative Duty Cycle, Delay 1→2 $f$ , Delay 1→2 $\tau$ , Phase 1→2 $f$ , Phase 1→2 $\tau$
Number of Measurements	Display 5 measurements at the same time
Measurement Range	Screen or cursor
Measurement Statistic	Average, Max, Min, Standard Deviation, Number of Measurements
Counter	Hardware 6 bits counter (channels are selectable)

### Math Operation

Waveform Operation	A+B, A-B, A×B, A/B, FFT, A&&B, A  B, A^B, !A, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, Filter
FFT Window	Rectangle, Hanning, Blackman, Hamming, Flat Top, Triangle
FFT Mode	Trace, Memory
FFT Display	Half, Full
FFT Vertical Scale	dB/dBm, Vrms
Filter	Low Pass Filter, High Pass Filter, Band Pass Filter, Band Stop Filter
Number of Buses for Decoding	2
Decoding Type	Parallel, RS232/UART, I2C, SPI

### Display

Display Type	7.0 inch TFT LCD display
Display Resolution	800 horizontal × RGB × 480 vertical pixel
Display Color	16 million color (24 bit true color)
Persistence Time	Min, 100 ms, 200 ms, 500 ms, 1 s, 5 s, 10 s, Infinite
Display Type	Dots, Vectors

### I/O

Standard Ports	USB Host, USB Device, LAN, Aux Output (TrigOut/PassFail)
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### Signal Source (Applicable to Digital Oscilloscopes with Source Channels)

Number of Channels	2	
Sample Rate	200 MSa/s	
Vertical Resolution	14 bits	
Max. Frequency	25 MHz	
Standard Waveform	Sine, Square, Pulse, Ramp, Noise, DC	
Arbitrary Waveform	Sinc, Exp.Rise, Exp.Fall, ECG, Gauss, Haversine	
Sine	Frequency Range	0.1 Hz to 25 MHz
	Flatness	±0.5 dB (relative to 1 kHz)
	Harmonic Distortion	-40 dBc
	Stray (Non-harmonic)	-40 dBc
	Total Harmonic Distortion	1%
	S/N Ratio	40 dB

Square /Pulse	Frequency Range	Square: 0.1 Hz to 15 MHz Pulse: 0.1 Hz to 1 MHz
	Rise/Fall time	<15 ns
	Overshoot	<5%
	Duty Cycle	Square: always be 50% Pulse: 10% to 90% adjustable
	Duty Cycle Resolution	1% or 10 ns (whichever is greater)
	Min. Pulse Width	20 ns
	Pulse Width Resolution	10 ns or 5 bits (whichever is greater)
	Jitter	500 ps
Ramp	Frequency Range	0.1 Hz to 100 kHz
	Linearity	1%
	Symmetry	0 to 100%
Noise <sup>[1]</sup>	Bandwidth	25 MHz
Built-in Waveforms	Frequency Range	0.1 Hz to 1 MHz
Arbitrary Waveforms	Frequency Range	0.1 Hz to 10 MHz
	Waveform Length	2 to 16k pts
Frequency	Accuracy	100 ppm (lower than 10 kHz) 50 ppm (greater than 10 kHz)
	Resolution	0.1 Hz or 4 bit, whichever is greater
Amplitude	Output Range	20 mVpp to 5 Vpp, HighZ 10 mVpp to 2.5 Vpp, 50 Ω
	Resolution	100 μV or 3 bit, whichever is greater
	Accuracy	±(2% of the setting value + 1 mV) (frequency = 1 kHz)
DC Offset	Range	±2.5 V, HighZ ±1.25 V, 50 Ω
	Resolution	100 μV or 3 bits, whichever is greater
	Accuracy	±(2% of the set offset value + 5 mV + 0.5% of the amplitude)
Modulation	AM, FM	

## General Specifications

Probe Compensation Output		
Output Voltage <sup>[1]</sup>	About 3 V, peak-peak	
Frequency <sup>[1]</sup>	1 kHz	
Power		
Power Voltage	100 V to 240 V, 45 Hz to 440 Hz	
Power	Maximum 50 W	
Fuse	2 A, T degree, 250 V	
Environment		
Temperature Range	Operating: 0°C to +50°C	
	Non-operating: -40°C to +70°C	
Cooling Method	Fan cooling	
Humidity Range	0°C to +30°C : ≤95% relative humidity	
	+30°C to +40°C : ≤75% relative humidity	
	+40°C to +50°C : ≤45% relative humidity	
Altitude	Operating: under 3,000 meters	
	Non-operating: under 15,000 meters	
Mechanical		
Dimensions <sup>[3]</sup>	Width × Height × Depth = 313.1 mm × 160.8 mm × 122.4 mm	
Weight <sup>[4]</sup>	Without package	3.2 kg ± 0.2 kg
	With package	3.8 kg ± 0.5 kg

Calibration Interval		
The recommended calibration interval is 18 months.		
Regulation Standards		
Electromagnetic Compatibility	Compliant with EMC DIRECTIVE 2014/30/EU, compliant with or higher than the standards specified in IEC 61326-1:2013/EN 61326-1:2013 Group 1 Class A	
	CISPR 11/EN 55011	
	IEC 61000-4-2:2008/EN 61000-4-2	±4.0 kV (contact discharge), ±8.0 kV (air discharge)
	IEC 61000-4-3:2002/EN 61000-4-3	3 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2.0 GHz to 2.7 GHz)
	IEC 61000-4-4:2004/EN 61000-4-4	1 kV power line
	IEC 61000-4-5:2001/EN 61000-4-5	0.5 kV (phase-to-neutral voltage); 1 kV (phase-to-earth voltage); 1 kV (neutral-to-earth voltage)
	IEC 61000-4-6:2003/EN 61000-4-6	3 V, 0.15-80 MHz
	IEC 61000-4-11:2004/EN 61000-4-11	voltage dip: 0% UT during half cycle; 0% UT during 1 cycle; 70% UT during 25 cycles short interruption: 0% UT during 250 cycles
Safety	IEC 61010-1:2010 (Third Edition)/EN 61010-1:2010, UL 61010-1:2012 R4.16 and CAN/CSA-C22.2 NO. 61010-1-12+ GI1+ GI2	
Vibration	Meets GB/T 6587; class 2 random Meets MIL-PRF-28800F and IEC60068-2-6; class 3 random	
Shock	Meets GB/T 6587-2012; class 2 random Meets MIL-PRF-28800F and IEC60068-2-27; class 3 random (in non-operating conditions: 30 g, half sine, 11 ms duration, 3 vibrations along the main axis, a total of 18 vibrations)	

Note<sup>[1]</sup>: Typical.

Note<sup>[2]</sup>: Maximum value. 50 ns, single-channel mode, dots display, auto memory depth.

Note<sup>[3]</sup>: Supporting legs and handle folded, knob height included.

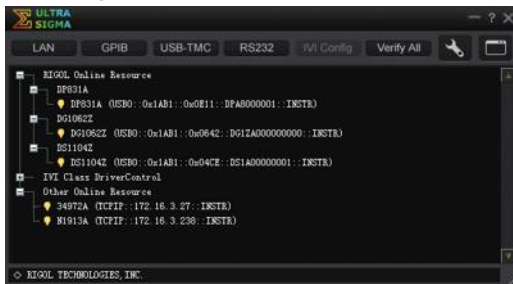
Note<sup>[4]</sup>: Standard configuration.

## ► Ordering Information

	Description	Order Number
Models	DS1104Z Plus (100 MHz, 4 analog channels, 16 digital channels available after upgrade)	DS1104Z Plus
	DS1104Z-S Plus (100 MHz, 4 analog channels, 2-channel 25 MHz signal source, 16 digital channels available after upgrade)	DS1104Z-S Plus
	DS1074Z Plus (70 MHz, 4 analog channels, 16 digital channels available after upgrade)	DS1074Z Plus
	DS1074Z-S Plus (70 MHz, 4 analog channels, 2-channel 25 MHz signal source, 16 digital channels available after upgrade)	DS1074Z-S Plus
	DS1054Z (50 MHz, 4 analog channels)	DS1054Z
Standard Accessories	Power Cord conforming to the standard of the country	-
	USB Cable	CB-USBA-USBB-FF-150
	4 Passive Probes (150 MHz)	PVP3150
	Quick Guide (Hard Copy)	-
MSO Upgrade Option	Only available for DS1000Z Plus, including logic analyzer probe (RPL1116) and model label	MSO1000Z Upgrade Package
Optional Accessory	Rack Mount Kit	RM-DS1000Z

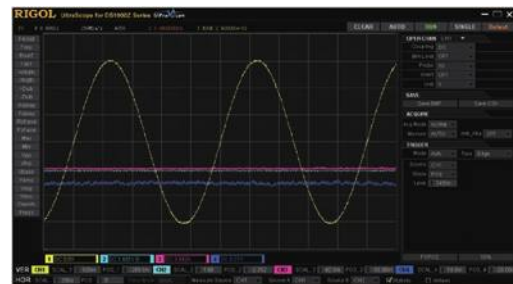
## ► Standard Software

### Ultra Sigma



- **RIGOL** general PC software platform
- Multi-instrument and multi-interface resource management
- With SCPI remote command tool

### Ultra Scope



- Real-time monitoring of waveform and status; supports multi-instrument and multi-window display
- With virtual panel feature
- Supports multi-interface remote control

## Warranty

Three -year warranty, excluding probes and accessories.

### HEADQUARTER

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