

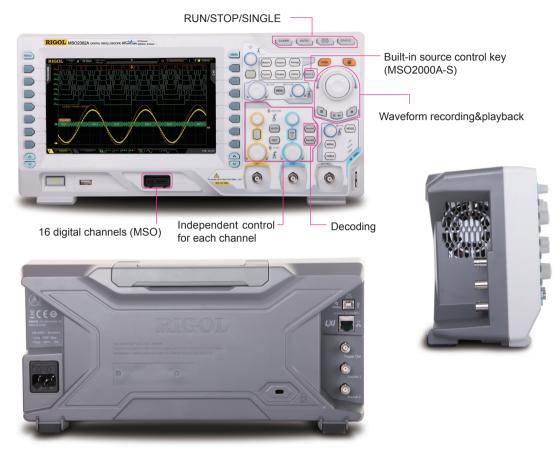




- Bandwidth up to 300 MHz, standard with 50 Ω input
- 2 analog channels, 16 digital channels (MSO)
- Lower noise floor, wider vertical range: 500 uV/div~10 V/div
- Real-time Sample Rate: analog channel up to 2 GSa/s, digital channel up to 1 GSa/s (MSO)
- Memory Depth: analog channel up to 14 Mpts (standard)/56 Mpts (optional), digital channel up to 14 Mpts (standard)/28 Mpts (optional, MSO)
- Innovative "UltraVision" technology
- Waveform capture rate up to 52,000 wfms/s
- Up to 256 levels intensity grading waveform display
- Up to 65,000 frames hardware real-time waveform record, playback and analysis functions (standard)
- A variety of trigger and bus decoding functions (Parallel, RS232, I2C, SPI, CAN)
- Built-in dual-channel 25 MHz signal source (MSO2000A-S)
- Complete connectivity: USB Host&Device, LAN (LXI), AUX, USB-GPIB (optional)
- 8 inch TFT (800x480) WVGA

MSO/DS2000A series is the new mainstream digital scope to meet the customer's applications with its innovative technology. MSO2000A series has 2+16 channels, targeting for the embedded design and test market with its industry leading specifications, powerful trigger functions and broad analysis capabilities.

MSO/DS2000A Series Digital Oscilloscope



Product Dimensions: Width×Height×Depth = 361.6 mmx179.6 mmx130.8 mm Weight: 3.9 kg±0.5 kg (Without Package)

► Innovative UltraVision Technology (Analog Channel)



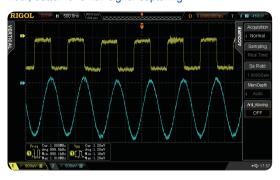
- Deep memory depth (up to 56 Mpts)
- Higher waveform capture rate (up to 52,000 wfms/s)
- Real-time waveform recording, playback and analysis functions (up to 65,000 frames)
- Multi-level intensity grading display (up to 256 levels)

► Models and Key Specifications

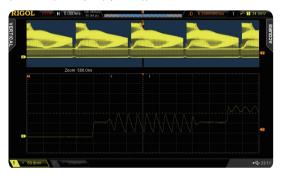
	DS2102A		DS2202A		DS2302A	
Model	MSO2102A	MSO2102A-S	MSO2202A	MSO2202A-S	MSO2302A	MSO2302A-S
Analog BW	100 N	1Hz	200	MHz	300	MHz
Number of Analog Channels		2				
Number of Digital Channels (MSO)		16 (support digital channel ungrouping and grouping operation)				
Max. Real-time Sample Rate	Analog channel: 2 GSa/s (single-channel), 1 GSa/s (dual-channel) Digital channel: 1 GSa/s (8-channel), 500 MSa/s (16-channel)					
Max. Memory Depth	Analog channel: 14 Mpts (single-channel), 7 Mpts (dual-channel) standard; 56 Mpts (single-channel), 28 Mpts (dual-channel) optional Digital channel: 14 Mpts (8-channel), 7 Mpts (16-channel) standard; 28 Mpts (8-channel), 14 Mpts (16-channel) optional					
Max. Waveform Capture rate	52,000 wfms/s					
Hardware Real-time Waveform Recording, Playback and Analysis Functions	Up to 65,000 frames (digital channel turned off) Up to 32,000 frames (digital channel turned on)					
Standard Probes	2 sets of PVP2350 350 MHz BW passive probes for all models; 1 set of RPL2316 logic analyzer probe also available for MSO					
Built-in Dual-channel 25 MHz Source	No	Yes	No	Yes	No	Yes

▶ Features and Benefits

Wide vertical range (500 uV/div~10 V/div), low noise floor, better for small signal capturing



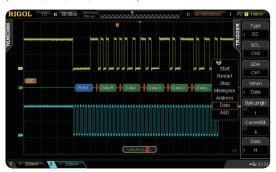
UltraVision: deep memory (analog channel up to 14 Mpts (standard)/56 Mpts (optional))



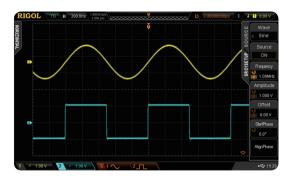
UltraVision: real-time ceaseless waveform recording, playback and analysis functions



Serial bus trigger&decoding functions (RS232, I2C, SPI, and CAN)



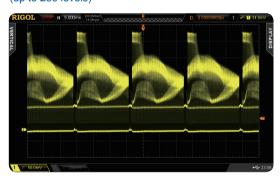
Built-in dual-channel 25 MHz source (MSO2000A-S)



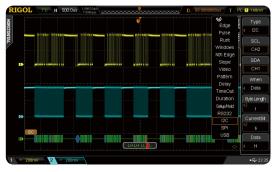
UltraVision: up to 52,000 wfms/s waveform capture rate



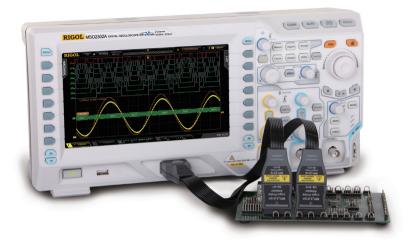
UltraVision: multi-level intensity grading display (up to 256 levels)



Various trigger functions (Runt, Setup/Hold, Nth Edge...)



► MSO2000A Series Mixed Signal Oscilloscope



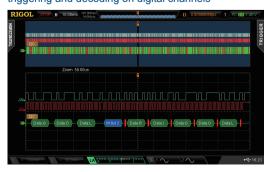
Besides the powerful functions of DS2000A, you could get more from MSO2000A with:

- 16 digital channels
- · Sample rate of digital channel up to 1 GSa/s
- · Memory depth of digital channel up to 28 Mpts
- · Waveform capture rate of digital channel up to 52,000 wfms/s
- Hardware real-time waveform recording and playback functions, up to 65,000 frames can be recorded
- Triggering and decoding across analog and digital channels
- · Easy ungrouping and grouping operation of the digital channels
- · Supports a variety of logic levels
- Up to 2+16 channels; trigger across the analog and digital channels
- Time correlated display and analysis for both the analog and digital channel waveforms

Mixed signal analysis with analog and digital channels



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



Innovative UltraVision Technology (Digital Channel)

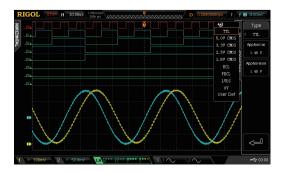


- Deep memory depth (up to 28 Mpts)
- High waveform capture rate (up to 52,000 wfms/s)
- · Real-time waveform recording and playback functions (up to 65,000 frames)
- · Multi-level intensity grading display

Easy to be grouped and labeled for digital channels



Supports a variety of logic levels



RIGOL Probes Supported by MSO/DS2000A Series:

RIGOL Passive Probes

RIGOL Active & Current Probes Model Type Description Model Type Description BW: DC to 300 kHz Max. input 1X: DC to 35 MHz DC: ± 100 A, Current 10X: DC to 150 MHz High Z AC P-P: 200 A. Probe Probe Compatibility: all RIGOL AC RMS: 70 A scopes. Compatibility: all RIGOL scopes. RP1001C PVP2150 BW: DC to 1 MHz Max. input DC: ±70 A, Current 1X: DC to 35 MHz AC P-P: 140 A, Probe 10X: DC to 350 MHz High Z AC RMS: 50 A Compatibility: all RIGOL Probe Compatibility: all RIGOL scopes. scopes. RP1002C PVP2350 BW: DC to 50 MHz Max. input Current AC P-P: 50 A (noncontinuous), Probe AC RMS: 30 A DC to 500 MHz Compatibility: all RIGOL scopes. High Z Compatibility: all RIGOL Must order RP1000P power supply. Probe scopes. RP1003C BW: DC to 100 MHz RP3500A Max. input Current AC P-P: 50 A (noncontinuous), AC RMS: 30 A Probe DC to 300 MHz Compatibility: all RIGOL scopes. CAT I 2000 V (DC+AC), Must order RP1000P power supply. High RP1004C CAT II 1500 V (DC+AC) Voltage Compatibility: all RIGOL BW: DC to 10 MHz Probe Max. input AC P-P: 300 A (noncontinuous), 500 scopes. Current A (@pulse width ≤ 30 us), Probe AC RMS: 150 A RP1300H Compatibility: all **RIGOL** scopes. Must order RP1000P power supply. RP1005C DC to 40 MHz DC: 0 to 10 kV DC, Hiah AC: pulse \leq 20 kVp-p, Power supply for RP1003C, Voltage Power AC: sine wave ≤ 7 RP1004C and RP1005C, support 4 Probe Supply channels. **kVrms** Compatibility: all RIGOL RP1000P RP1010H scopes. High BW: 25 MHz Voltage Max. voltage ≤ 1400 Vpp Differential Compatibility: all RIGOL scopes. DC to 150 MHz Probe High DC+AC Peak: 18 kV CAT II RP1025D AC RMS: 12 kV CAT II Voltage Probe Compatibility: all RIGOL scopes. High BW: 50 MHz Voltage Max. voltage ≤ 7000 Vpp RP1018H Differential Compatibility: all RIGOL scopes. Probe RP1050D Logic analyzer probe High Logic



(for MSO4000&

MSO2000A)

Analyzer

Probe

BW: 100 MHz

Max. voltage ≤ 7000 Vpp

Compatibility: all RIGOL scopes.

Voltage

Probe

RP1100D

Differential

▶ Specifications

All the specifications are guaranteed except the 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	Analog channel: 2 GSa/s (single-channel), 1 Gsa/s (dual-channel) Digital channel: 1 GSa/s (8-channel), 500 MSa/s (16-channel)	
Peak Detect	Analog channel: 500 ps (single-channel), 1 ns (dual-channel) Digital channel: 1 ns (8-channel), 2 ns (16-channel)	
Averaging	After all the channels finish N samples at the same time, N can be 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096 or 8192.	
High Resolution	12 bits of resolution when ≥5 μs/div @ 1 GSa/s (or ≥10 μs/div @ 500 MSa/s).	
Minimum Detectable Pulse Width	Digital channel: 5 ns	
Memory Depth	Analog channel: Single-channel: Auto, 14 kpts, 140 kpts, 1.4 Mpts, 14 Mpts and 56 Mpts (optional) are available Dual-channel: Auto, 7 kpts, 70 kpts, 700 kpts, 7 Mpts and 28 Mpts (optional) are available Digital channel: 14 Mpts (8-channel), 7 Mpts (16-channel) standard; 28 Mpts (8-channel), 14 Mpts (16-channel) optional	

Input

Number of Channels	MSO2XX2A/2XX2A-S: 2 analog channels+16 digital channels DS2XX2A: 2 analog channels
Input Coupling	DC, AC or GND
Input Impedance	Analog channel: (1 M Ω ±1%) (16 pF±3 pF) or 50 Ω ±1.5% Digital channel: (101 k Ω ±1%) (9 pF±1 pF)
Probe Attenuation Coefficient	Analog channel: 0.01X to 1000X, in 1-2-5 step
Maximum Input Voltage (1 MΩ)	Analog channel: CAT I 300 Vrms, CAT II 100 Vrms, transient overvoltage 1000 Vpk Digital channel: CAT I 40 Vrms, transient overvoltage 800 Vpk

Horizontal

Time Base Scale	MSO2302A/2302A-S/DS2302A: 1.000 ns/div to 1.000 ks/div MSO2202A/2202A-S/DS2202A: 2.000 ns/div to 1.000 ks/div MSO2102A/2102A-S /DS2102A: 5.000 ns/div to 1.000 ks/div	
Channel to Channel Skew	ns (typical), 2 ns (maximum)	
Maximum Record Length	14 Mpts (standard), 56 Mpts (optional)	
Time Base Accuracy ^[1]	≤±25 ppm	
Time Base Drift	≤±5 ppm/year	
Maximum Delay Range	Memory Depth/Sample Rate	
Time Base Mode	Y-T, X-Y, Roll	
Number of X-Ys	1 path	
Waveform Capture Rate ^[2]	52,000 wfms/s (dots display)	

Vertical

Bandwidth (-3 dB) (50 Ω)	MSO2302A/2302A-S/DS2302A: DC to 300 MHz MSO2202A/2202A-S/DS2202A: DC to 200 MHz MSO2102A/2102A-S/DS2102A: DC to 100 MHz		
Single Bandwidth (50 Ω)	MSO2302A/2302A-S/DS2302A: DC to 300 MHz MSO2202A/2202A-S/DS2202A: DC to 200 MHz MSO2102A/2102A-S/DS2102A: DC to 100 MHz		
Vertical Resolution	Analog channel: 8 bit Digital channel: 1 bit		
Vertical Scale ^[3]	When the input impedance is 50 Ω: 500 μV/div to 1 V/div When the input impedance is 1 MΩ: 500 μV/div to 10 V/div		
Offset Range	When the input impedance is 50 Ω : 500 μ V/div to 50 mV/div: ± 2 V 51 mV/div to 200 mV/div: ± 10 V 205 mV/div to 1 V/div: ± 12 V When the input impedance is 1 M Ω : 500 μ V /div to 50 mV/div: ± 2 V 51 mV/div to 200 mV/div: ± 10 V 205 mV/div to 2 V/div: ± 50 V 2.05 V/div to 10 V/div: ± 10 V		
Bandwidth Limit ^[1]	MSO2302A/2302A-S/2202A/2202A-S/DS2302A/2202A: 20 MHz/100 MHz MSO2102A/2102A-S/DS2102A: 20 MHz		
Low Frequency Response (AC Coupling, -3 dB)	≤5 Hz (on BNC)		
Calculated Rise Time ^[1]	MSO2302A/2302A-S/DS2302A: 1.2 ns MSO2202A/2202A-S/DS2202A: 1.8 ns MSO2102A/2102A-S/DS2102A: 3.5 ns		
DC Gain Accuracy ^[3]	±2% full scale		
DC Offset Accuracy	±0.1 div ± 2 mV ± 1% offset value		
Channel to Channel Isolation	DC to maximum bandwidth: >40 dB		
	1		

Vertical (Digital Channel)

vertical (Bigital Off	in the state of th	
Threshold	1 group with 8 channels adjustable threshold	
	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)	
Threshold Selection	1.8 V CMOS (+0.9 V)	
Threshold Selection	ECL (-1.3 V)	
	PECL (+3.7 V)	
	LVDS (+1.2 V)	
	0 V	
	User	
Threshold Range	±20.0 V, in 10 mV step	
Threshold Accuracy	±(100 mV + 3% of threshold setting)	
Dynamic Range	±10 V + threshold	
Minimum Voltage Swing	500 mVpp	
Input Impedance	//101 kΩ	
Probe Loading	≈8 pF	
Vertical Resolution	1 bit	
	·	

Trigger

Trigger Level Range	Internal: ±5 div from center of the screen EXT: ±4 V	
Trigger Mode	Auto, Normal, Single	
Holdoff Range	100 ns to 10 s	
High Frequency Rejection ^[1]	75 kHz	
Low Frequency Rejection ^[1]	75 kHz	
Trigger Sensitivity ^[1]	1 div (below 10 mV or noise rejection is enabled) 0.3 div (above 10 mV and noise rejection is disabled)	
Edge Trigger		
Edge Type	Rising, Falling, Rising/Falling	
Pulse Trigger		
Pulse Condition	Positive Pulse Width (greater than, lower than, within specific interval) Negative Pulse Width (greater than, lower than, within specific interval)	
Pulse Width Range	2 ns to 4 s	
Runt Trigger		
Pulse Condition	None, >, <, <>	
Pulse Polarity	Positive, Negative	
Pulse Range	2 ns to 4 s	
Windows Trigger (Opt	tional)	
Windows Type	Rising, Falling, Rising/Falling	
Trigger Position	Enter, Exit, Time	
Windows Time	16 ns to 4 s	
Nth Edge Trigger (Opt	tional)	
Edge Type	Rising, Falling	
Idle Time	16 ns to 4 s	
Number of Edges	1 to 65535	
Slope Trigger		
Slope Condition	Positive Slope (greater than, lower than, within specific interval) Negative Slope (greater than, lower than, within specific interval)	
Time Setting	10 ns to 1 s	
Video Trigger (Option	al)	
Signal Standard	NTSC, PAL/SECAM, 480P, 576P (standard) 720P, 1080P and 1080I (optional)	
Pattern Trigger		
Pattern Setting	H, L, X, Rising Edge, Falling Edge	
Delay Trigger (Option	al)	
Edge Type	Rising, Falling	
Delay Type	>, <, <>, ><	
Delay Time	2 ns to 4 s	
TimeOut Trigger (Opti	ional)	
Edge Type	Rising, Falling, Rising/Falling	
Timeout Time	16 ns to 4 s	
Duration Trigger (Opt	ional)	
Pattern Setting	H, L, X	
Trigger Condition	>, <, <>	
Duration Time	2 ns to 4 s	
Setup/Hold Trigger		
Edge Type	Rising, Falling	
Data Type	H, L	
Setup Time	2 ns to 1 s	
-	1	

Hold Time	2 ns to 1 s			
RS232/UART Trigger				
Polarity	Normal, Invert			
Trigger Condition	Start, Error, Check Erro	or, Data		
Baud	2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps, 230400 bps, 460800 bps, 921600 bps, 1 Mbps, User			
Data Bits	5 bit, 6 bit, 7 bit, 8 bit			
I2C Trigger				
Trigger Condition	Start, Restart, Stop, Mi	issing ACK, Address, Data, A&D		
Address Bits	7 bit, 8 bit, 10 bit			
Address Range	0 to 127, 0 to 255, 0 to	1023		
Byte Length	1 to 5			
SPI Trigger				
Trigger Condition	Timeout			
Timeout Value	100 ns to 1 s			
Data Bits	4 bit to 32 bit			
Data Setting	H, L, X			
CAN Trigger (Optional)			
Signal Type	Rx, Tx, CAN_H, CAN_	L, Differential		
Trigger Condition	SOF, EOF, Frame Type	SOF, EOF, Frame Type, Frame Error		
Baud	10 kbps, 20 kbps, 33.3 kbps, 50 kbps, 62.5 kbps, 83.3 kbps, 100 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps, 1 Mbps, User			
Sample Point	5% to 95%			
Frame Type	Data, Remote, Error, C	Over Load		
Error Type	Bit Fill, Answer Error, C	Check Error, Format Error, Random Error		
USB Trigger (Optional)			
Signal Speed	Low Speed, Full Speed	b		
Trigger Condition	SOP, EOP, RC, Suspend, Exit Suspend			
Measure				
Cursor	Manual Mode	Voltage Deviation between Cursors (\triangle V) Time Deviation between Cursors (\triangle T) Reciprocal of \triangle T (Hz) (1/ \triangle T)		
	Track Mode	Voltage and Time Values of the Waveform Point		
	Auto Mode	Allow to display cursors during auto measurement		
Auto Measurement	Pre-shoot, Area, Period Positive Duty Cycle, Ne A → B → Phase A → Digital channel: Frequency, Period, Pos	eak-Peak Value, Top Value, Bottom Value, Amplitude, Average, Vrms-N, Vrms-1, Overshoot, I Area, Frequency, Period, Rise Time, Fall Time, Positive Pulse Width, Negative Pulse Width, Regative Duty Cycle, Delay Af →Bf, Delay Af →Bf, Delay Af →Bf, Delay Af →Bf, Phase Bf, Phase Af →Bf,		
Number of Measurements	Display 5 measurements at the same time.			
Measurement Range	Screen Region or Curso	or Region		
Measurement Statistic	Current, Average, Max, Min, Standard Deviation, Number of Measurements			
Frequency Counter	Hardware 6 bits frequen	ncy counter (channels are selectable)		
Math Operation				
Waveform				

FFT Window	Rectangle, Hanning, Blackman, Hamming
FFT Display	Split, Full Screen
FFT Vertical Scale	Vrms, dB
Logic Operation	AND, OR, NOT, XOR
Math Function	Intg, Diff, Lg, Exp, Sqrt, Sine, Cosine, Tangent
Number of Buses for Decoding	2
Decoding Type	Parallel (standard), RS232 (optional), I2C (optional), SPI (optional), CAN (optional)

Display

Display Type	8.0 inches (203 mm) TFT LCD display
Display Resolution	800 horizontal×RGB×480 Vertical Pixel
Display Color	160,000 Color (TFT)
Persistence Time	Min, 50 ms, 100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, Infinite
Display Type	Dots, Vectors
Real-time Clock	Time and Date (user adjustable)

Signal Source (MSO2000A-S)

•	,	
Channels	2	
Sample Rate	200 MSa/s	
Vertical Resolution	14 bits	
Max. Frequency	25 MHz	
Standard Waveform	Sine, Square, Pulse, Ramp, Noise, DC	
Built-in Waveform	Sinc, Exponential Rise, Exponential Fall, ECG, Ga	auss, Lorentz, Haversine
	Frequency Range	100 mHz to 25 MHz
	Flatness	±0.5 dB (relative to 1 kHz)
Otra -	Harmonic Distortion	-40 dBc
Sine	Stray (Non-harmonic)	-40 dBc
	Total Harmonic Distortion	1%
	S/N Ratio	40 dB
	Frequency Range	Square: 100 mHz to 15 MHz Pulse: 100 mHz to 1 MHz
	Rise/Fall Time	<15 ns
	Overshoot	<5%
Square/Pulse	Duty Cycle	Square: 50% Pulse: 10% to 90% (user adjustable)
	Duty Cycle Resolution	1% or 10 ns (the larger of the two)
	Min. Pulse Width	20 ns
	Pulse Width Resolution	10 ns or 5 bits (the larger of the two)
	Jitter	500 ps
	Frequency Range	100 mHz to 100 kHz
Ramp	Linearity	1%
	Symmetry	0 to 100%
Noise	Bandwidth	25 MHz (typical)
Built-in Waveform	Frequency Range	100 mHz to 1 MHz
	Frequency Range	100 mHz to 10 MHz
Arbitrary Waveform	Waveform Length	1 to 16k points
	Internal Storage Location	10

Frequency	Accuracy	100 ppm (lower than 10 kHz) 50 ppm (higher than 10 kHz)
	Resolution	100 mHz or 4 bits, the larger of the two
Amplitude	Output Range	20 mVpp to 5 Vpp, HighZ 10 mVpp to 2.5 Vpp, 50 Ω
7paa	Resolution	100 μV or 3 bits, the larger of the two
	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, the larger of the two
	Accuracy	±(2% of the set offset value + 5 mV + 0.5% of the amplitude)
Modulation	AM, FM	·

I/O

Standard Ports	USB Host (support USB-GPIB), USB Device, LAN, Aux Output (TrigOut/PassFail)	
Printer Compatibility	PictBridge	

General Specifications

Probe Compensation Ou	tput		
Output Voltage[1]	About 3 V, peak-peak		
Frequency ^[1]	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		
Physical Characteristic	s -		
Size ^[4]	Width×Height×Depth = 361.6 mm×179.6 mm×130.8 mm		
Weight ^[5]	Package Excluded 3.9 kg±0.5 kg		
	Package Included 4.5 kg±0.5 kg		

Calibration Interval

The recommended calibration interval is 18 months.

Electromagnetic Compatibility and Safety

complies with EMC Directive 2014/30/EU, complies with or above the standard specified in IEC61326-1:2013/ EN61326-1:2013 Group 1 Class A CISPR 11/EN 55011 ±4.0 kV (contact discharge), ±8.0 kV (air discharge) IEC 61000-4-2:2008/EN 61000-4-2 3 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); IEC 61000-4-3:2002/EN 61000-4-3 1 V/m (2.0 GHz to 2.7 GHz) **EMC** IEC 61000-4-4:2004/EN 61000-4-4 1 kV power 0.5 kV (phase-to-neutral voltage); 1 kV (phase-to-earth voltage); 1 kV IEC 61000-4-5:2001/EN 61000-4-5 (neutral-to-earth voltage) IEC 61000-4-6:2003/EN 61000-4-6 3 V, 0.15 to 80 MHz voltage dip: 0% UT during half cycle; 0% UT during 1 cycle; 70% UT during IEC 61000-4-11:2004/EN 61000-4-11 25 cycles short interruption: 0% UT during 250 cycles complies with IEC 61010-1:2010 (Third Edition)/EN 61010-1:2010, UL 61010-1:2012 R4.16 and CAN/CSA-C22.2 Safety No. 61010-1-12+ GI1+ GI2

Note^[1]: Typical value.

Note^[2]: Maximum value. 20 ns, single-channel mode, dots display, auto memory depth.

Note^[3]: 500 uV/div is the digital amplification of 1 mV/div. When calculating the DC Gain Accuracy, the full scale should be considered as 8 mV based on 1 mV/div.

Note^[4]: Supporting legs and handle folded, knob height included. Note^[6]: Standard configuration.

➤ Ordering Information

	Description	Order Number
Model	DS2102A (100 MHz, 2-analog channel oscilloscope)	DS2102A
	MSO2102A (100 MHz, 2-analog channel + 16-digital channel MSO)	MSO2102A
	MSO2102A-S (100 MHz, 2-analog channel + 16-digital channel MSO + 2-channel 25 MHz signal source)	MSO2102A-S
	DS2202A (200 MHz, 2-analog channel oscilloscope)	DS2202A
	MSO2202A (200 MHz, 2-analog channel + 16-digital channel MSO)	MSO2202A
	MSO2202A-S (200 MHz, 2-analog channel + 16-digital channel MSO + 2-channel 25 MHz signal source)	MSO2202A-S
	DS2302A (300 MHz, 2-analog channel oscilloscope)	DS2302A
	MSO2302A (300 MHz, 2-analog channel + 16-digital channel MSO)	MSO2302A
	MSO2302A-S (300 MHz, 2-analog channel + 16-digital channel MSO + 2-channel 25 MHz signal source)	MSO2302A-S
Standard Accessories	Power Cord conforming to the standard of the destination country	-
	USB Data Cable	CB-USBA-USBB-FF-150
	2 Passive Probes (350 MHz)	PVP2350
	1 set LA Probe (only available for MSO)	RPL2316
	Quick Guide (Hard Copy)	-
Optional Accessories	Rack Mount Kit	RM-DS2000A
	Passive Probe (500 MHz)	RP3500A
	USB-GPIB Interface Converter	USB-GPIB
	Soft Carrying Bag	BAG-G1
Deep Memory Option	Analog channel: 56 Mpts (single-channel)/28 Mpts (dual-channel) Digital channel: 28 Mpts (8-channel)/14 Mpts (16-channel)	MEM-DS2000A
Advanced Trigger Option	Windows trigger, Nth edge trigger, HDTV trigger, Delay trigger, TimeOut trigger, Duration trigger, USB trigger	AT-DS2000A
Decoding Options	RS232, I2C, SPI Decoding Kit	SD-DS2000A
	CAN Analysis Kit (Trigger + Decoding)	CAN-DS2000A

Warranty

Three-year warranty, excluding probes and accessories.

HEADQUARTER

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