





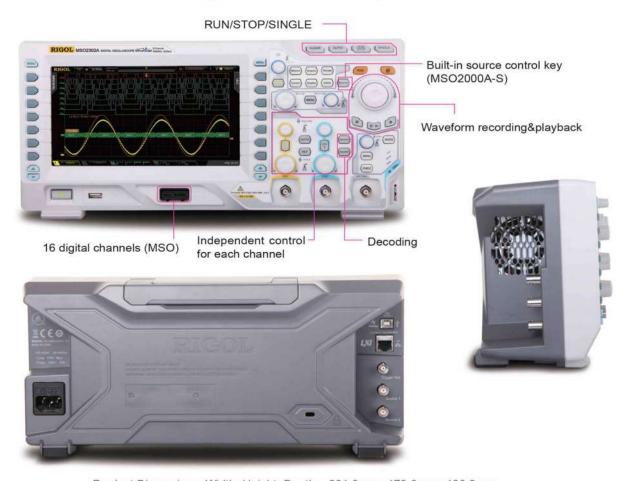


- Bandwidth up to 300 MHz, standard with 50 Ω input
- 2 analog channels, 16 digital channels (MSO)
- Lower noise floor, wider vertical range: 500 uV/div~10 V/div
- Real-time Sample Rate: analog channel up to 2 GSa/s, digital channel up to 1 GSa/s (MSO)
- Memory Depth: analog channel up to 14 Mpts (standard)/56 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				DS2302A	
Model	MSO2102A	MSO2102A-S	MSO2202A	MSO2202A-S	MSO2302A	MSO2302A-S
Analog BW	100	MHz	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



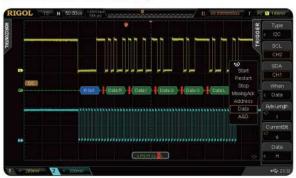
UltraVision: deep memory (analog channel up to 14 Mpts (standard)/56 Mpts (optional))



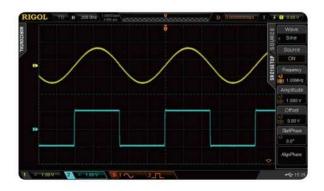
UltraVision: real-time ceaseless waveform recording, playback and analysis functions



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



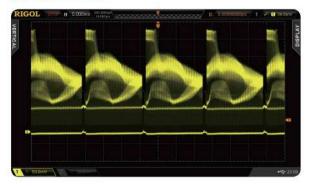
Built-in dual-channel 25 MHz source (MSO2000A-S)



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)

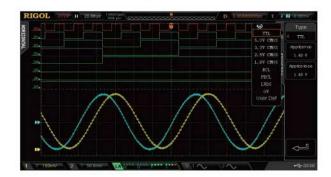


- · Deep memory depth (up to 28 Mpts)
- High waveform capture rate (up to 52,000 wfms/s)
- Real-time waveform recording and playback functions (up to 65,000 frames)
- · Multi-level intensity grading display

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			
Model	Type	Description	
PVP2150	High Z Probe	1X: DC to 35 MHz 10X: DC to 150 MHz Compatibility: all RIGOL scopes.	
PVP2350	High Z Probe	1X: DC to 35 MHz 10X: DC to 350 MHz Compatibility: all RIGOL scopes.	
RP3500A	High Z Probe	DC to 500 MHz Compatibility: all RIGOL scopes.	
RP1300H	High Voltage Probe	DC to 300 MHz CAT I 2000 V (DC+AC), CAT II 1500 V (DC+AC) Compatibility: all RIGOL scopes.	
		DC to 40 MHz	



RP1010H

High Voltage Probe

DC: 0 to 10 kV DC, AC: pulse ≤ 20 kVp-p, AC: sine wave ≤ 7 **kVrms** Compatibility: all RIGOL

scopes.



High Voltage Probe

DC to 150 MHz DC+AC Peak: 18 kV CAT II AC RMS: 12 kV CAT II Compatibility: all RIGOL scopes.





Logic Analyzer Probe

Logic analyzer probe (for MSO4000& MSO2000A)

RPL2316

RIGOL Active & Current Probes

Model	Type	Description
6 RP1001C	Current Probe	BW: DC to 300 kHz Max. input DC: ±100 A, AC P-P: 200 A, AC RMS: 70 A Compatibility: all RIGOL scopes.
_		BW: DC to 1 MHz



Max. input DC: ±70 A, Current AC P-P: 140 A, Probe AC RMS: 50 A

Compatibility: all RIGOL scopes.



RP1003C

Current Probe

BW: DC to 50 MHz Max. input AC P-P: 50 A (noncontinuous), AC RMS: 30 A Compatibility: all RIGOL scopes. Must order RP1000P power supply.



Current Probe

Max. input AC P-P: 50 A (noncontinuous),

AC RMS: 30 A

BW: DC to 100 MHz

Compatibility: all RIGOL scopes. Must order RP1000P power supply.



Probe

BW: DC to 10 MHz Max. input AC P-P: 300 A (noncontinuous), 500 A (@pulse width ≤ 30 us), Current

AC RMS: 150 A Compatibility: all RIGOL scopes.

Must order RP1000P power supply.



Power supply for RP1003C, RP1004C and RP1005C, support 4

RP1000P



RP1025D

High Voltage Differential Probe

Power

Supply

BW: 25 MHz Max. voltage ≤ 1400 Vpp Compatibility: all RIGOL scopes.



High Voltage Differential Probe

BW: 50 MHz Max. voltage ≤ 7000 Vpp Compatibility: all RIGOL scopes.



High Voltage Differential Probe

BW: 100 MHz Max. voltage ≤ 7000 Vpp Compatibility: all RIGOL scopes.



▶ 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, 70 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)		



Digital Oscilloscopes

MSO/DS2000A Series

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MSO2302A/2302A-S/DS2302A: DC to 300 MHz MSO2202A/2202A-S/DS2202A: DC to 200 MHz MSO2102A/2102A-S/DS2102A: DC to 100 MHz			
MSO2302A/2302A-S/DS2302A: DC to 300 MHz MSO2202A/2202A-S/DS2202A: DC to 200 MHz MSO2102A/2102A-S/DS2102A: DC to 100 MHz			
Analog channel: 8 bit Digital channel: 1 bit			
When the input impedance is 50 Ω : 500 μ V/div to 1 V/div When the input impedance is 1 M Ω : 500 μ V/div to 10 V/div			
When the input impedance is 50 Ω : 500 μ V/div to 50 mV/div: \pm 2 V 51 mV/div to 200 mV/div: \pm 10 V 205 mV/div to 1 V/div: \pm 12 V When the input impedance is 1 M Ω : 500 μ V /div to 50 mV/div: \pm 2 V 51 mV/div to 200 mV/div: \pm 10 V 205 mV/div to 2 V/div: \pm 50 V 2.05 V/div to 10 V/div: \pm 100 V			
MSO2302A/2302A-S/2202A/2202A-S/DS2302A/2202A: 20 MHz/100 MHz MSO2102A/2102A-S/DS2102A: 20 MHz			
≤5 Hz (on BNC)			
MSO2302A/2302A-S/DS2302A: 1.2 ns MSO2202A/2202A-S/DS2202A: 1.8 ns MSO2102A/2102A-S/DS2102A: 3.5 ns			
±2% full scale			
±0.1 div ± 2 mV ± 1% offset value			
DC to maximum bandwidth: >40 dB			

Vertical (Digital Channel)

Threehold		
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 (Op	tional)			
Windows Type	Rising, Falling, Rising/Falling			
Trigger Position	Enter, Exit, Time			
Windows Time	16 ns to 4 s			
Nth Edge Trigger (Op	tional)			
Edge Type	Rising, Falling			
Idle Time	16 ns to 4 s			
Number of Edges	1 to 65535			
Slope Trigger	1			
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				
Signal Standard	NTSC, PAL/SECAM, 480P, 576P (standard) 720P, 1080P and 1080I (optional)			
Pattern Trigger	Section of the Control of the Contro			
Pattern Setting	H, L, X, Rising Edge, Falling Edge			
Delay Trigger (Option				
Edge Type	Rising, Falling			
Delay Type	>,<,<>,><			
Delay Time	2 ns to 4 s			
TimeOut Trigger (Opt	ional)			
Edge Type	Rising, Falling, Rising/Falling			
Timeout Time	16 ns to 4 s			
Duration Trigger (Opt				
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			
Cottap Hille	210.0010			



Hold Time	2 ns to 1 s		
RS232/UART Trigge	er		
Polarity	Normal, Invert		
Trigger Condition	Start, Error, Check Error, 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, Missing 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 (Optio	nal)		
Signal Type	Rx, Tx, CAN_H, CAN_L, Differential		
Trigger Condition	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, Over Load		
Error Type	Bit Fill, Answer Error, Check Error, Format Error, Random Error		
USB Trigger (Optio	nal)		
Signal Speed	Low Speed, Full Speed		
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)	
Curon	Track Mode	Voltage and Time Values of the Waveform Point	
	Auto Mode	Allow to display cursors during auto measurement	
Auto Measurement	Analog channel: Maximum, Minimum, Peak-Peak Value, Top Value, Bottom Value, Amplitude, Average, Vrms-N, Vrms-1, Overshoot, Pre-shoot, Area, Period Area, Frequency, Period, Rise Time, Fall Time, Positive Pulse Width, Negative Pulse Width, Positive Duty Cycle, Negative Duty Cycle, Delay $Af \rightarrow Bf$, Delay $Af \rightarrow Bf$, Delay $Af \rightarrow Bf$, Phase $Af \rightarrow Bf$, Delay $Af \rightarrow Bf$, Delay $Af \rightarrow Bf$, Delay $Af \rightarrow Bf$, Phase $Af \rightarrow Bf$		
Number of Measurements	Display 5 measurements at the same time.		
Measurement Range	Screen Region or Cursor Region		
Measurement Statistic	Current, Average, Max, Min, Standard Deviation, Number of Measurements		
Frequency Counter	Hardware 6 bits frequency counter (channels are selectable)		

Math Operation

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Waveform Operation	A+B, A-B, A×B, A+B, FFT, Digital Filter, Editable Advanced Operation, Logic Operation



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, Gauss, Lorentz, Haversine				
	Frequency Range	100 mHz to 25 MHz			
	Flatness	±0.5 dB (relative to 1 kHz)			
Cina	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			
Square/Pulse	Overshoot	<5%			
	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	
	Resolution	100 μV or 3 bits, the larger of the two	
	Accuracy	±(2% of the setting value + 1 mV) (frequency = 1 kHz)	
	Range	±2.5 V, HighZ ±1.25 V, 50 Ω	
DC Offset	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		

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

General Specifications

Probe Compensation (Dutput			
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	Maximum 50 W		
Fuse	2 A, T degree, 250 V			
Environment				
Tomporatura Dance	Operating: 0°C to +50°C			
Temperature Range Non-operating: -40°C to +70°C				
Cooling Method	Fan cooling			
Homeidite Denne	0°C to +30°C : ≤95% relative humidity			
Humidity Range	+30°C to +40°C : ≤ 75% relative humidity			
+40°C to +50°C : ≤45% relative humidity				
Altitude	Operating: under 3,000 meters			
Allitude	Non-operating: under 15,000 meters			
Physical Characteris	tics			
Size ^[4]	Width×Height×Depth = 361.6 mm×179.6 mm×130.8 mm			
Weight ^[5]	Package Excluded	3.9 kg±0.5 kg		
vveignt	Package Included	4.5 kg±0.5 kg		
0-11111 111				

Calibration Interval

The recommended calibration interval is 18 months.

Electromagnetic Compatibility and Safety	EI	ectromag	netic	Com	patibility	and	Safety
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Electromagnet	tic Compatibility and Safety					
	complies with EMC Directive 2014/3 EN61326-1:2013 Group 1 Class A	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				
EMC	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				
	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 to 80 MHz				
	voltage dip: 0% UT during half cycle; 0% UT during 1 cycle; 70% UT during 1 cycle; 70% UT during 1 cycle; 70% UT during 25 cycles short interruption: 0% UT during 250 cycles					
Safety	complies with IEC 61010-1:2010 (Thi	rd Edition)/EN 61010-1:2010, UL 61010-1:2012 R4.16 and CAN/CSA-C22.2				

Note[1]: Typical value.

Note^[4]: Typical value.

Note^[3]: 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^[5]: Standard configuration.



➤ Ordering Information

	Description	Order Number	
	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	
Model	MSO2202A (200 MHz, 2-analog channel + 16-digital channel MSO)	MSO2202A	
Model	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	
, 10000001100	1 set LA Probe (only available for MSO)	RPL2316	
	Quick Guide (Hard Copy)	-	
	Rack Mount Kit	RM-DS2000A	
Optional	Passive Probe (500 MHz)	RP3500A	
Accessories	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	
Danadina Osti	RS232, I2C, SPI Decoding Kit	SD-DS2000A	
Decoding Options	CAN Analysis Kit (Trigger + Decoding)	CAN-DS2000A	

Warranty

Three-year warranty, excluding probes and accessories.