

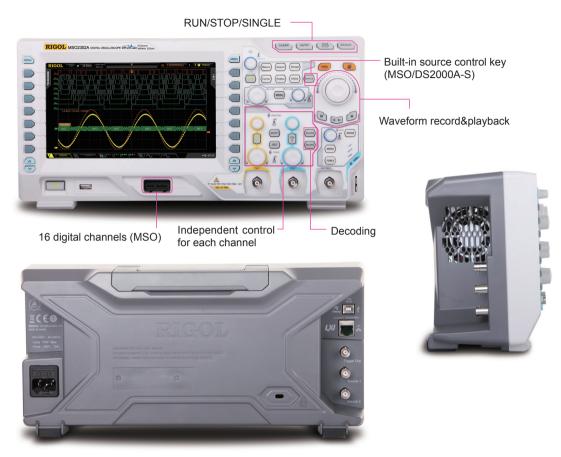




- Bandwidth up to 300 MHz, standard with 50  $\Omega$  input
- 2 analog channels, 16 digital channels (MSO)
- Lower noise floor, wider vertical range: 500 uV/div~10 V/div
- Real-time Sample Rate: analog channel up to 2 GSa/s, digital channel up to 1 GSa/s (MSO)
- Memory Depth: analog channel up to 14 Mpts (standard)/56 Mpts (optional), digital channel up to 14 Mpts (standard)/28 Mpts (optional)
- Innovative "UltraVision" technology
- Waveform capture rate up to 50,000 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 (MSO/DS2000A-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, target 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)



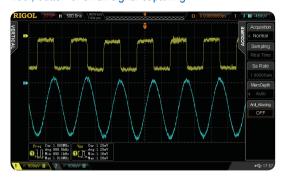
- Deeper memory depth (up to 56 Mpts)
- Higher waveform capture rate (up to 50,000 wfms/s)
- Real-time waveform record, playback and analysis functions (up to 65,000 frames)
- Multi-level intensity grading display (up to 256 levels)

## ► Models and Key Specifications

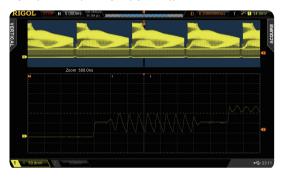
	DS2072A	DS2072A-S	DS2102A	DS2102A-S	DS2202A	DS2202A-S	DS2302A	DS2302A-S	
Model	MSO2072A	MSO2072A-S	MSO2102A	MSO2102A-S	MSO2202A	MSO2202A-S	MSO2302A	MSO2302A-S	
Analog BW	70	MHz	100 MHz		200	200 MHz		300 MHz	
Number of Analog Channels				2	)				
Number of Digital Channels (MSO)		16							
Max. Real-time 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	50,000 wfms/s								
Hardware Real-time Waveform Record, Playback and Analysis Functions	Up to 65,000 Frames (LA channels turned off) Up to 32,000 Frames (LA channel(s) turned on)								
Standard Probes		PVP2350 350MHz BW Passive Probe: 2 sets; 1 set RPL2316 LA Probe (MSO only)			)				
Built-in Dual-channel 25 MHz Source	No	Yes	No	Yes	No	Yes	No	Yes	

#### ▶ Features and Benefits

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



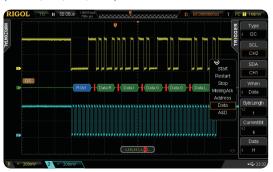
UltraVision: deeper memory (analog channel up to 14 Mpts (standard)/56 Mpts (optional))



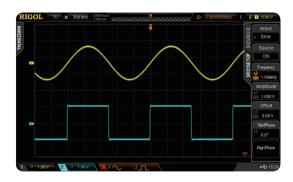
UltraVision: real-time waveform record, playback and analysis functions



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



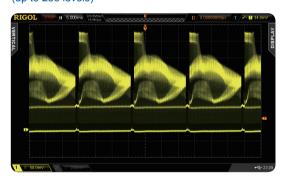
Built-in dual-channel 25 MHz source (MSO/DS2000A-S)



UltraVision: up to 50,000 wfms/s waveform capture rate



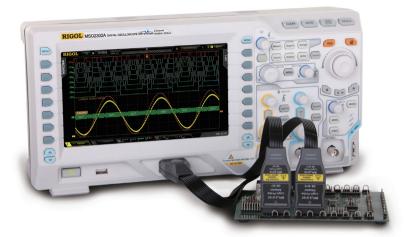
UltraVision: multi-level intensity grading display (up to 256 levels)



 $\label{thm:cons} \mbox{Versatile trigger functions (Runt, Nth Edge, Setup/Hold...)}$ 



#### ▶ MSO2000A Series Mixed Signal Oscilloscope



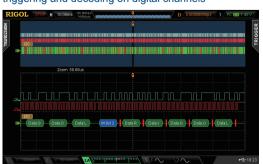
# Besides the powerful functions of DS2000A, you could get more from MSO2000A with:

- 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 50,000 wfms/s
- Hardware real-time waveform record and playback functions, up to 65,000 frames can be recorded
- Triggering and decoding across analog and digital channels
- Easy grouping and group 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



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



# Innovative UltraVision Technology (Digital Channel)

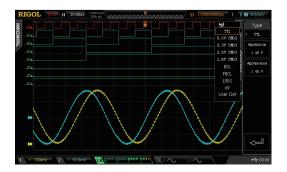


- Deeper memory depth (up to 28 Mpts)
- Higher waveform capture rate (up to 50,000 wfms/s)
- Real-time waveform record and playback functions (up to 65,000 frames)
- · Multi-level intensity grading display

#### Easy to be grouped and labeled for digital channels



#### Supports a variety of logic levels



# **RIGOL** Probes Supported by MSO/DS2000A Series:

RPL2316

RIGOL Passive Probes			RIGOL Active & Current Probes		
Model Number	Type	Description	Model Number	Type	Description
PVP2150	High Z Probe	1X: DC to 35 MHz 10X: DC to 150 MHz Compatibility: all <b>RIGOL</b> scopes.	RP1001C	Current Probe	BW: DC to 300 kHz Max. input DC: ±100 A, AC P-P: 200 A, AC RMS: 70 A Compatibility: all <b>RIGOL</b> scopes.
	High Z Probe	1X: DC to 35 MHz 10X: DC to 350 MHz Compatibility: all <b>RIGOL</b> scopes.	RP1002C	Current Probe	BW: DC to 1 MHz Max. input DC: ±70 A, AC P-P: 140 A, AC RMS: 50 A Compatibility: all <b>RIGOL</b> scopes.
PVP2350	High Z Probe	DC to 500 MHz 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
RP3500A	High	DC to 300 MHz CAT I 2000 V (DC+AC),	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
RP1300H	Voltage Probe	CAT II 1500 V (DC+AC) Compatibility: all <b>RIGOL</b> scopes.		Current Probe	BW: DC to 10 MHz Max. input AC P-P: 300 A (noncontinuous), 50 A (@pulse width ≤ 30 us), AC RMS: 150 A Compatibility: all <b>RIGOL</b> scopes. Must order RP1000P power supply
RP1010H	High Voltage Probe	DC to 40 MHz DC: 0 to 10 kV DC, AC: pulse ≤ 20 kVp-p, AC: sine wave ≤ 7 kVrms Compatibility: all <b>RIGOL</b> scopes.	RP1005C	Power Supply	Power supply for RP1003C, RP1004C and RP1005C, support 4 channels.
111 101011	High Voltage	DC to 150 MHz DC+AC Peak: 18 kV CAT II AC RMS: 12 kV CAT II	RP1025D	High Voltage Differential Probe	BW: 25 MHz Max. voltage ≤ 1400 Vpp Compatibility: all <b>RIGOL</b> scopes.
RP1018H	Probe	Compatibility: all <b>RIGOL</b> scopes.	6	High Voltage Differential Probe	BW: 50 MHz Max. voltage ≤ 7000 Vpp Compatibility: all <b>RIGOL</b> scopes.
	Logic analysis Probe	Logic analysis probe (for MSO4000&MSO2000A)	RP1050D	High Voltage Differential Probe	BW: 100 MHz Max. voltage ≤ 7000 Vpp Compatibility: all <b>RIGOL</b> scopes.

RP1100D

# **▶** 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

MSO2XX2A/2XX2A-S: 2 analog channels+16 digital channels DS2XX2A/2XX2A-S: 2 analog channels
DC, AC or GND
Analog channel: (1 M $\Omega$ ±1%)    (16 pF±3 pF) or 50 $\Omega$ ±1.5% Digital channel: (101 k $\Omega$ ±1%)    (9 pF±1 pF)
Analog channel: 0.01X to 1000X, in 1-2-5 step
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	MSO/DS2302A/2302A-S: 1.000 ns/div to 1.000 ks/div MSO/DS2202A/2202A-S: 2.000 ns/div to 1.000 ks/div MSO/DS2102A/2102A-S/2072A/2072A-S: 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 <sup>[1]</sup>	≤±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 <sup>[2]</sup>	50,000 wfms/s (dots display)		

#### Vertical

Bandwidth (-3 dB) (50 Ω)	MSO/DS2302A/2302A-S: DC to 300 MHz MSO/DS2202A/2202A-S: DC to 200 MHz MSO/DS2102A/2102A-S: DC to 100 MHz MSO/DS2072A/2072A-S: DC to 70 MHz
Single Bandwidth (50 Ω)	MSO/DS2302A/2302A-S: DC to 300 MHz MSO/DS2202A/2202A-S: DC to 200 MHz MSO/DS2102A/2102A-S: DC to 100 MHz MSO/DS2072A/2072A-S: DC to 70 MHz
Vertical Resolution	Analog channel: 8 bit Digital channel: 1 bit
Vertical Scale <sup>[3]</sup>	When the input impedance is 50 $\Omega$ : 500 $\mu$ V/div to 1 V/div When the input impedance is 1 M $\Omega$ : 500 $\mu$ V/div to 10 V/div
Offset Range	When the input impedance is 50 $\Omega$ : 500 $\mu$ 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 $\Omega$ : 500 $\mu$ 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: $\pm 10$ V
Bandwidth Limit <sup>[1]</sup>	MSO/DS2302A/2302A-S/2202A/2202A-S: 20 MHz/100 MHz MSO/DS2102A/2102A-S/2072A/2072A-S: 20 MHz
Low Frequency Response (AC Coupling, -3 dB)	≤5 Hz (on BNC)
Calculated Rise Time <sup>[1]</sup>	MSO/DS2302A/2302A-S: 1.2 ns MSO/DS2202A/2202A-S: 1.8 ns MSO/DS2102A/2102A-S: 3.5 ns MSO/DS2072A/2072A-S: 5 ns
DC Gain Accuracy <sup>[3]</sup>	±2% full scale
DC Offset Accuracy	±0.1 div ± 2 mV ± 1% offset value
Channel to Channel Isolation	DC to maximum bandwidth: >40 dB

### Vertical (Digital Channel)

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)		
	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			
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 <sup>[1]</sup>	75 kHz		
Low Frequency Rejection <sup>[1]</sup>	75 kHz		
Trigger Sensitivity <sup>[1]</sup>	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			
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	nal)		
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	Delay Trigger (Optional)		
Edge Type	Rising, Falling		
Delay Type	>, <, <>, ><		
Delay Time	2 ns to 4 s		
TimeOut Trigger (Optional)			
Edge Type	Rising, Falling, Rising/Falling		
Timeout Time	16 ns to 4 s		
Duration Trigger (Optional)			
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
Hold Time	2 ns to 1 s
RS232/UART Trigge	r
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 (Option	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 (Option	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)	
	Track Mode	ode 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 $Af \rightarrow Bf$ , Phase $Af \rightarrow Bf$ , 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

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/DS2000A-S)

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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		
Sine	Frequency Range	100 mHz 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: 100 mHz to 15 MHz Pulse: 100 mHz to 1 MHz	
	Rise/Fall Time	<15 ns	
	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	
Ramp	Frequency Range	100 mHz to 100 kHz	
	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	on	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 $\Omega$		
	Resolution		100 μV or 3 bits, the larger of the two		
	Accuracy		2% (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		Offset setting value ± 2%		
Modulation	AM, FM				
I/O					
Standard Ports	USB Host (support USB-GPIB), USB Device, LAN, Aux Output (TrigOut/PassFail)				
Printer Compatibility	PictBridge				
General Specificat	ions				
Probe Compensation (	Dutput				
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	2 A, T degree, 250 V			
Environment					
Tomporaturo Pango	Operating: 0°C to +50°C				
Temperature Range	Non-operating: -40°C to +70°C				
Cooling Method	Fan cooling				
Hereidte Benne	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				
Ailitude	Non-operating: under 15,000 meters				
Physical Characteris	tics				
Size <sup>[4]</sup>	Width×Height×Depth = 361.6 mm×179.6 mm×130.8 mm				
Weight <sup>[5]</sup>	Package Excluded 3	3.9 kg±0.5 kg			
	Package Included 4.5 kg±0.5 kg				
Calibration Interval					
	ibration interval is one year	r.			
Regulatory Information					
Electromagnetic Compatibility	2004/108/EC Execution standard EN 61326-1:2006 EN 61326-2-1:2006				
Safety		UL 61010-1:2004; CAN/CSA-C22.2 NO. 61010-1-2004; EN 61010-1:2001; IEC 61010-1:2001			

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

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

Note<sup>[8]</sup>: 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<sup>[4]</sup>: Supporting legs and handle folded, knob height included.

Note<sup>[5]</sup>: Standard configuration.

# ► Ordering Information

	Description	Order Number
Model	DS2072A (70 MHz, 2-analog channel oscilloscope)	DS2072A
	DS2072A-S (70 MHz, 2-analog channel oscilloscope + 2-channel 25 MHz signal source)	DS2072A-S
	MSO2072A (70 MHz, 2-analog channel + 16-digital channel MSO)	MSO2072A
	MSO2072A-S (70 MHz, 2-analog channel + 16-digital channel MSO + 2-channel 25 MHz signal source)	MSO2072A-S
	DS2102A (100 MHz, 2-analog channel oscilloscope)	DS2102A
	DS2102A-S (100 MHz, 2-analog channel oscilloscope + 2-channel 25 MHz signal source)	DS2102A-S
	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
	DS2202A-S (200 MHz, 2-analog channel oscilloscope + 2-channel 25 MHz signal source)	DS2202A-S
	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
	DS2302A-S (300 MHz, 2-analog channel oscilloscope + 2-channel 25 MHz signal source)	DS2302A-S
	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 country	-
	USB Data Cable	CB-USBA-USBB-FF-150
	2 Passive Probes (350 MHz)	PVP2350
	1 set LA Probe (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.



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