

Product Catalogue

- + Digital Storage Oscilloscope
- + Arbitrary Waveform Generator
- + Programmable DC Power Supply
- + PC Oscilloscope
- + Digital Multimeter



owon[®] product line - Created by **LILLIPUT**[®]

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About **OWON**[®]

Since 1990, Lilliput steps into electronics product industry, its 1st product series is mini color LCD.

Owned by Lilliput, OWON product line was created to "Meet your best need" in test and measurement equipment field.

Through 2 decades' efforts, Lilliput gradually grows to be a group corporation, covering 3 product line - mini color LCD, test and measurement equipment, and home energy management system.

OWON product could be found in Asia, North America, Europe, South America, Oceania, and Africa, with global partners established in more than 80 countries/ regions.

Lilliput (OWON) spares no efforts to be one of top test and measurement equipment original equipment manufacturers in the worldwide range.



Development Milestone

- 2016**
Oct 14-bit high resolution DSO XDS3202A added into XDS series
Sep new product XDM series bench-type digital multimeter
- 2015**
Jun 12-bit high resolution n-in-1 smart DSO - XDS series product created
Mar smart bluetooth digital multimeter launched
- 2014**
Jun creative pen-type PC oscilloscope "Wave Rambler" released
Apr single-channel waveform generator AG-S series comes into being
Mar 4-channel PC oscilloscope VDS3104 added into VDS series
- 2013**
Oct SDS-E Series - 2G economical digital storage oscilloscope
Jul new product TDS series touch screen digital storage oscilloscope
Apr new product VDS series PC oscilloscope
- 2012**
Aug SDS5032E - 2G of PDS5022
- 2011**
Nov Ag4151 - DDS arbitrary waveform generator first debut in Shanghai Electronics Exhibition
Oct ISO9001 quality system certified
ODP3032 - programmable DC power supply unveiled in Hong Kong Electronics Exhibition
- 2010**
Oct Smart DS series DSO with ultra-thin body, and 10M record length
Feb MSO8202T - 200MHz bandwidth mixed LA-supported DSO
Jan MSO8102T - 100MHz bandwidth mixed LA-supported DSO
- 2009**
Oct HDS3102M-N - first 100MHz bandwidth handheld DSO made by China born
Apr innovative application of auto-measurement, and max 20 group measurement options equipped with full OWON product
Jan MSO7102T - mixed LA-supported DSO with 100MHz bandwidth, and 1GS/s real time sample rate, becomes new member of OWON product family
- 2008**
Dec OWON receives the honor - "the highest cost performance product" from Wireless magazine
Apr PDS7102T - 100MHz bandwidth bench type DSO entering into product line
- 2007**
Nov MSO5022S - mixed LA-supported DSO launched
Jun HDS-N series DSO - the upgraded version of HDS series
- 2006**
HDS2062M - 60MHz handheld DSO introduced
PDS5022 - large 7.8" color LCD bench type DSO
HDS1022M - first fine quality 2 in 1 handheld DSO created by China with high def color LCD

Market Coverage

With its headquarter located in Zhangzhou, Lilliput (OWON) establishes 4 offices in China, and 3 overseas offices, 2 of them in North America, 1 in Western Europe.

Lilliput (OWON) already successfully markets OWON product line into 80+ territories through its sales network.



Part of OWON product users - education field

- Harvard University
The University of Iowa
The University of Western Ontario
- Chiba University
- Technische University Hamburg-Harburg
University degli Studi di Milano
- University of Mosul
- Sultan Qaboos University
- Rabat Academy

XDS Series

your powerful n-in-1 on-site measurement station



12 or 14 bits
high resolution ADC



Super Performance

- + 8-bit, 12-bit or 14-bit high resolution ADC, restoring the waveform detail fully
- + 40M record length, and 75,000 wfms/s waveform refresh rate
- + low background noise, vertical sensitivity in 1 mV/div - 10 V/div
- + multi-trigger, and bus decoding function
- + SCPI, and LabVIEW supported

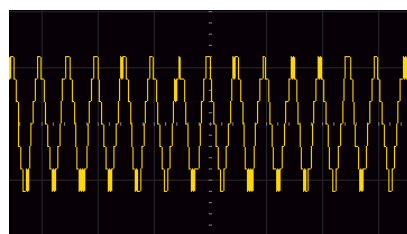
Creative New Look

- + ultra-thin body-design, less space accommodation
- + multi-interface integration - USB host, USB device, USB port for PictBridge, LAN, AUX, and more
- + VGA port - better solution for video expansion, and teaching demonstration
- + 8 inch 800 x 600 high resolution LCD
- + optional multi-point touch screen, more user-friendly operation experience

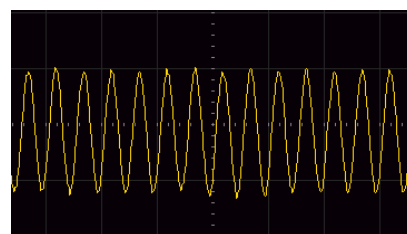
n-in-1

functions as data logger, and multimeter with data logging function, and dual-channel 25MHz / 50MHz arbitrary waveform generator, furthermore, battery pack, and WiFi module supported

- 12-bit high vertical resolution model - XDS-A series product achieves 16 times resolution, and definition more than its general 8-bit counterpart, which makes it the better solution provider for small signal measurement, and signal detail restoration from large signal

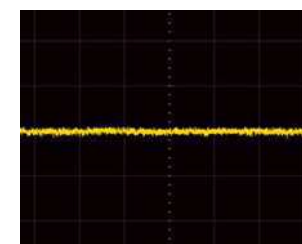


20mVpp signal measured by common 8-bit DSO, 10 times zoomed



20mVpp signal measured by 12-bit XDS series DSO, 10 times zoomed

2. Xvisual platform - restore the waveform detail fully



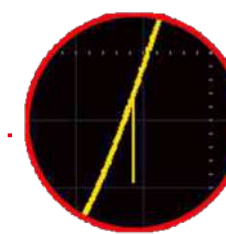
low background noise

MLength
1000
10K
100K
1M
10M
20M

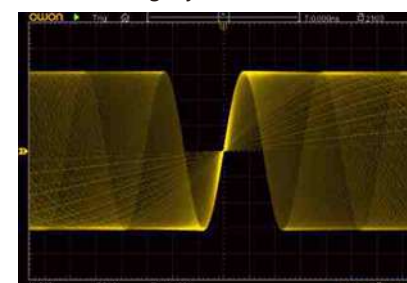
40M record length



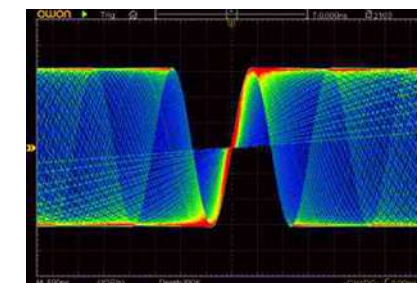
and 75,000 wfms/s refresh rate, easily capturing exceptional, and low probability events



3. multi-level grayscale, and color temperature display



within certain unit time, more frequent one waveform pixel appears, more vivid it is



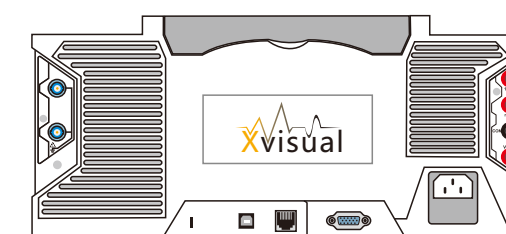
the frequency of waveform reflecting in color temperature value, larger the value is, more frequent the waveform appears

4. multi-trigger supported - Logic, Time-out, I²C, SPI, RS232, Runt, Windows, Nth Edge, and CAN
5. serial bus coding available in I2C, SPI, RS232, and CAN

MBus Type
RS232
I2C
SPI
CAN

MSingle
Edge
Video
Pulse
Slope
Runt
Windows
Timeout
Nth Edge

6. built-in multimeter module, with auto-scale, and data logging function
7. built-in dual-channel 25MHz / 50MHz arbitrary waveform generator module, with sample rate of 125MS/s / 250MS/s

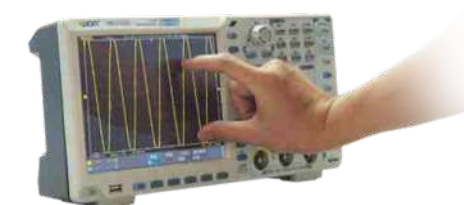


8. its built-in WiFi module facilitates mobile device connecting with XDS series product, to get access to remote control, together with simultaneous measurement result display



via app s/w, waveform data-saving, checking, co-sharing is possible, co-analyzing hence realizes

9. its multi-point touchscreen improves operation efficiency considerably



10. optional battery makes floating measurements possible, advancing the operation convenience



XDS Series

your powerful n-in-1 on-site measurement station

+ Performance Specifications

Model		XDS3062A	XDS3102A	XDS3202A**	XDS3102	XDS3202*	XDS3302*
Bandwidth		60MHz	100MHz	200MHz	100MHz	200MHz	300MHz
Sample Rate		1GS/s(8bits) 500MS/s(12bits) (*100MS/s(14bits))			1GS/s	2GS/s	2.5GS/s
Vertical Resolution (A/D)		12 bits		14 bits	8 bits		
Record Length		40M					
Waveform Refresh Rate		75,000 wfms/s					
Horizontal Scale (s/div)		2ns/div - 1000		1ns/div - 1000	2ns/div - 1000		1ns/div - 1000
		step by 1 - 2 - 5					
Rise Time (at input, typical)		≤5.8ns	≤3.5ns	≤1.7ns	≤3.5ns	≤1.7ns	≤1.17ns
Channel		2+1 (external)					
Display		8" color LCD, 800 x 600 pixels					
Input Impedance		1MΩ ± 2 %, in parallel with 15pF ± 5pF; (*, **50Ω ± 2%)					
Channel Isolation		50Hz : 100 : 1, 10MHz : 40 : 1					
Max Input Voltage		1MΩ ≤ 300Vrms; 50Ω ≤ 5Vrms					
DC Gain Accuracy		±1%			±3%		
DC Accuracy		average ≥ 16: ±(3% reading + 0.05 div) for ΔV					
Probe Attenuation Factor		0.001X - 1000X, step by 1 - 2 - 5					
LF Respond (AC,-3dB)		≥5Hz (at input, AC coupling, -3dB)					
Sample Rate / Relay Time Accuracy		±1ppm					
Interpolation		sin(x)/x, x					
Interval (ΔT) Accuracy (fullbandwidth)		Single: ±(1 interval time + 1ppm x reading + 0.6ns); Average > 16: ±(1 interval time + 1ppm x reading + 0.4ns)					
Input Coupling		DC, AC, and GND					
Vertical Sensitivity		1mV/div - 10V/div (at input)					
Trigger Type		Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I²C, SPI, RS232, and CAN (optional)					
Bus Decoding (optional)		I²C, SPI, RS232, and CAN					
Trigger Mode		Auto, Normal, and Single					
Vertical Range		±2V (1mv/div - 50mv/div), ±20V (100mv/div - 1V/div), ±200V (2V/div - 10V/div)					
Line / Field Frequency (video)		NTSC, PAL and SECAM standard					
Cursor Measurement		ΔV, and ΔT between cursors, ΔV and ΔT between cursors, and auto- cursors					
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B, Delay A→B, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count					
Waveform Math		+, -, *, /, FFT					
Waveform Storage		100 waveforms					
Lissajou's Figure	Bandwidth	full bandwidth					
	Phase Difference	±3 degrees					
Communication Interface		USB host, USB device, USB port for PictBridge, Trig Out (P/F), LAN, and VGA (optional)					
Frequency Counter		available					
Power Supply		100 - 240 V AC, 50/60Hz, CAT II					
Power Consumption		< 15W					
Fuse		2A, T class, 250V					
Battery (optional)		3.7V, 13200mAh					
Dimension (W x H x D)		340 x 177 x 90 (mm)					
Device Weight		2.60 kg					

+ Multimeter (optional) Specifications

Full Scale Reading	3¼ digits (max 4000 count)	Diode	0V - 1.5V
Input Impedance	10MΩ	Continuity Test	<50 (±30) beeping
Capacitance	51.2nF - 100uF: ±(3% ± 3 digits)		
Voltage	VDC: 400mV, 4V, 400V: ±(1 ± 1 digit); max input: DC 1000V VAC: 4V, 40V, 400V: ±(1 ± 3 digits); frequency: 40Hz - 400Hz; max input: AC 400V (virtual value)		
Current	DC: 40mA, 400mA: ±(1.5% ± 1 digit); 10A: ±(3% ± 3 digits) AC: 40mA: ±(1.5% ± 3 digits), 400mA: ±(2% ± 1 digit), 10A: ±(3% ± 3 digits)		
Impedance	400Ω: ±(1% ± 3 digits), 4KΩ - 40MΩ: ±(1% ± 1 digit)		

+ Arb Waveform Generator (optional) Specifications

Max Frequency Output	25MHz	50MHz
Sample Rate	125MS/s	250MS/s
Channel	available in 1-ch, or 2-ch	
Vertical Resolution	14 bits	
Amplitude Range	10mVpp - 6Vpp	
Waveform Length	8K	
Standard Waveform	Sine, Square, Pulse, and Ramp	

+ Optional Module / Function

VGA	VGA+AV port
WIF	WiFi
AWG	arb waveform generator
DMM	digital multimeter
TOU	touch screen (capacitor-type)

+ Optional Decoding Kit

RS232	RS232
SPI	SPI
I2C	I²C
CAN	CAN decoding

Specifications subject to change without prior notice.

+ Application

- electronic circuit debugging
education and training
- circuit testing
automobile maintenance and testing
- design and manufacture
automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Probe



Probe Adjust

optional accessories:



Multimeter Lead



Q9



Capacitance Ext Module



Battery



Soft Bag



mobile app accessible via scanning QR code

TOUCH TDS Series Touch Screen Digital Storage Oscilloscope



- + Max 200MHz bandwidth, up to 2GS/s realtime sample rate
- + 7.6M record length
- + 50,000 wfms/s waveform capture rate
- + waveform zooming (horizontal / vertical), and saving
- + FFT points (length, and resolution variable)
- + multi-window extension
- + 8 inch 800 x 600 pixels high resolution LCD
- + multi- communication interface : USB, VGA, and LAN
- + LabVIEW supported

+ Performance Specifications

Model	TDS7074	TDS7104	TDS8104	TDS8204
Bandwidth	70MHz		100MHz	200MHz
Channel	4			
Sample Rate	1GS/s		2GS/s	
Waveform Capture Rate	50,000 wfms/s			
Display	8" color LCD			
Input Coupling	DC, AC, and GND			
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF ; 50Ω ± 1%			
Probe Attenuation Factor	1X, 10X, 100X, 1000X			
Max Input Voltage	1MΩ input impedance : 400V (DC + AC peak) ; 50Ω input impedance : 5V (DC + AC peak)			
Channel Isolation	50Hz : 100 : 1 ; 10MHz : 40 : 1			
Interpolation	sin(x)/x			
Record Length	7.6M			
Horizontal Scale (s/div)	2ns/div - 100s/div, step by 1 - 2 - 5			
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns), Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)			
Vertical Resolution (A/D)	8 bits (4 channels simultaneously)			
Vertical Sensitivity	2mV/div - 10V/div (at input)			
Analog Bandwidth	70MHz		100MHz	200MHz
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)			
Rise Time	≤5ns		≤3.5ns	≤1.7ns

Model		TDS7074	TDS7104	TDS8104	TDS8204
DC Accuracy		±3%			
Trigger Type		Edge, Pulse, Video, and Slope			
Trigger Mode		Auto, Normal, and Single			
Trigger Level Range		±6 division from the screen center			
Trigger Level Accuracy (typical)		±0.3 division			
Line / Field Frequency (video)		NTSC, PAL, and SECAM standard			
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B _L , Delay A→B _T , +Width, -Width, +Duty, -Duty			
Waveform Math		+, -, *, /, FFT			
Waveform Storage		4 reference waveforms			
Lissajous Figure	Bandwidth	full Bandwidth			
	Phase Difference	±3 degrees			
Cursor Measurement		ΔV, and ΔT between cursors			
Communication Port		USB host, USB device, VGA (optional), and LAN			
Power Supply		100 - 240 V AC, 50/60Hz, CAT II			
Dimension (W x H x D)		380 x 180 x 115 (mm)			
Device Weight		1.50 kg			

Specifications subject to change without prior notice.

+ Application

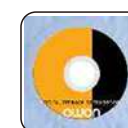
electronic circuit debugging circuit testing design and manufacture
education and training automobile maintenance and testing

+ Accessories

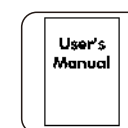
The accessories subject to final delivery.



Power Cord



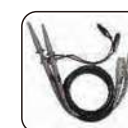
CD Rom



Manual



USB Cable



Probe



Probe Adjust



Soft Bag (optional)

Smart DS Series Deep Memory Digital Storage Oscilloscope



- + Bandwidth : 60MHz - 300MHz with dual-channel
- + Sample rate : 500MS/s - 3.2GS/s
- + 10M record length for each channel
- + Smart design with easy portability
- + Large 8 inch 800 x 600 pixels LCD
- + LAN remote control
- + Multi-function : auto-scale, Pass / Fail, current measurement, and **digital filtering**
- + SCPI, and LabVIEW supported
- + newly added function - PictBridge
- + *Optional **BATTERY** available*



+ Performance Specifications

Model	SDS6062	SDS7072	SDS7102	SDS7202	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	70MHz	100MHz	200MHz	100MHz	200MHz	300MHz	
Sample Rate	500MS/s	1GS/s			2GS/s		2.5GS/s	3.2GS/s
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5	2ns/div - 100s/div, step by 1 - 2 - 5			1ns/div - 100s/div, step by 1 - 2 - 5			
Rise Time	≤5.8ns	≤5ns	≤3.5ns	≤1.7ns	≤3.5ns	≤1.7ns	≤1.17ns	
Display	8" color LCD, 800 x 600 pixels							
Channel	2 + 1 (external)							
Record Length	10M							
Input Coupling	DC, AC, and GND							
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF							
Channel Isolation	50MHz : 100 : 1, 10MHz : 40 : 1							
Max Input Voltage	400V (DC + AC Peak)							
DC Gain Accuracy	±3%							
DC Accuracy	average≥16 : ±(3% reading + 0.05 div) for ΔV							
Probe Attenuation Factor	1X, 10X, 100X, 1000X							
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)							
Sample Rate / Relay Time Accuracy	±100ppm							
Interpolation	sin(x)/x							
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns); Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)							
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)							
Vertical Sensitivity	2mV/div - 10V/div							
Digital Filtering	low-pass, high-pass, band-pass, and band-reject							

Model		SDS6062	SDS7072	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Trigger Type		Edge, Pulse, Video, Slope, and Alternate						
Trigger Mode		Auto, Normal, and Single						
Trigger Level		±6 divisions from screen center						
Acquisition Mode		Sample, Peak Detect, and Average						
Line / Field Frequency (video)		NTSC, PAL and SECAM standard						
Cursor Measurement		ΔV, and ΔT between cursors						
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Peak RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time, Delay A→B $\overline{\downarrow}$, Delay A→B $\overline{\uparrow}$, +Width, -Width, +Duty, -Duty, Duty cycle						
Waveform Math		+, -, *, /, invert, FFT						
Waveform Storage		15 waveforms						
Lissajous Figure	Bandwidth	full bandwidth						
	Phase Difference	±3 degrees						
Communication Interface		USB host, USB device, Pass / Fail, LAN, VGA (optional), and RS232 (optional)						
Frequency Counter		available						
Power Supply		100V - 240V AC, 50/60Hz, CAT II						
Power Consumption		< 18W	< 24W					
Fuse		2A, T class, 250V						
Battery (optional)		7.4V, 8000mA						
Dimension (W x H x D)		340 x 155 x 70 (mm)						
Device Weight		1.80 kg						

Specifications subject to change without prior notice.

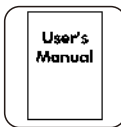
+ Application

electronic circuit debugging
education and training

circuit testing design and manufacture
automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.



Power Cord

CD Rom

Manual

USB Cable

Probe

Probe Adjust

Battery
(optional)

Soft Bag
(optional)

SDS-E Series 2G economical type digital storage oscilloscope



- + Bandwidth : 30MHz - 125MHz
- + Sample rate : 500MS/s - 1GS/s
- + Ultra-thin body
- + 8 inch high resolution LCD
- + Pass / Fail function
- + SCPI, and LabVIEW supported
- + newly added function - **digital filtering**, and current measurement (excl. SDS5032E and SDS5052E)



+ Performance Specifications

Model	SDS5032E	SDS5052E	SDS6062E	SDS7072E	SDS7102E	SDS7122E
Bandwidth	30MHz	50MHz	60MHz	70MHz	100MHz	125MHz
Sample Rate	500MS/s			1GS/s		
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5			2ns/div - 100s/div, step by 1 - 2 - 5		
Rise Time (at input, typical)	≤11ns	≤7ns	≤5.8ns	≤5ns	≤3.5ns	≤2.8ns
Channel	2 + 1 (external)					
Display	8" color LCD, 800 x 600 pixels					
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF		1MΩ ± 2%, in parallel with 15pF ± 3pF			
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1					
Max Input Voltage	400V (DC + AC peak)					
DC Gain Accuracy	±3%					
Record Length	10K		1M (optional 10M)			
DC Accuracy (average)	average≥16 : ±(3% reading + 0.05 div) for △V					
Probe Attenuation Factor	1X, 10X, 100X, 1000X					
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)					
Sample Rate / Relay Time Accuracy	±100ppm					
Interpolation	sin(x)/x					
Interval (△T) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns), Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)					
Input Coupling	DC, AC , and GND					
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)					
Vertical Sensitivity	5mV/div - 10V/div (at input)		2mV/div - 10V/div (at input)			
Digital Filtering	low-pass, high-pass, band-pass, and band-reject					

Model		SDS5032E	SDS052E	SDS6062E	SDS7072E	SDS7102E	SDS7122E
Trigger Type		Edge, Pulse, Video, Slope, and Alternate					
Trigger Mode		Auto, Normal, and Single					
Trigger Level		±6 divisions from screen center					
Line / Field Frequency (video)		NTSC, PAL, and SECAM standard					
Cursor Measurement		Δ V, and Δ T between cursors					
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Peak RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty,					
Waveform Math		+, -, *, /, invert, FFT					
Waveform Storage		15 waveforms					
Lissajous Figure	Bandwidth	full bandwidth					
	Phase Difference	±3 degrees					
Communication Interface		USB host, USB device, Pass / Fail, LAN, and VGA (optional)					
Frequency Counter		available					
Power Supply		100V - 240V AC, 50/60Hz, CAT II					
Power Consumption		< 18W					
Fuse		2A, T class, 250V					
Battery		not supported					
Dimension (W x H x D)		348 x 170 x 78 (mm)					
Device Weight		1.50 kg					

Specifications subject to change without prior notice.

+ Application

- electronic circuit debugging
education and training
- circuit testing
automobile maintenance and testing
- design and manufacture
automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.



//MSO Series

Mixed LA - Oscilloscope



- + 2 in 1 (DSO + LA)
- + 8 inch color LCD
- + USB data transmission supported
- + 20 automated measurements
- Digital Storage Oscilloscope**
- + Bandwidth : 60MHz - 200MHz
- + Sample rate : up to 2GS/s
- + Auto-scale function
- + FFT
- Logic Analyzer**
- + Bandwidth : 100MHz - 200MHz
- + Sample rate : max 2GS/s
- + 16 input channels

[Digital Storage Oscilloscope] Performance Specifications

Model	MSO7062TD	MSO7102TD	MSO8102T	MSO8202T
Bandwidth	60MHz	100MHz		200MHz
Sample Rate	1GS/s		2GS/s	
Rise Time	≤5.8ns	≤3.5ns		≤1.7ns
Display	8" color LCD , 640 x 480 pixels			
Channel	dual + external trigger			
Horizontal Scale (s/div)	2ns/div - 100s/div, step by 1 - 2 - 5			1ns/div - 100s/div, step by 1 - 2 - 5
DC Accuracy (average)	average>16 : ±(3% reading + 0.05div) for ΔV			
Vertical Sensitivity	2mV/div - 10V/div			
DC Gain Accuracy	±3%			
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)			
Interpolation	sin(x)/x			
Max Input Voltage	400V (DC + AC peak)			
Probe Attenuation Factor	1X , 10X , 100X , 1000X			
Trigger Mode	Edge, Video, Alternate, Pulse, and Slope			
Acquisition Mode	Normal, Peak Detect, and Average			
Record Length	2M points			
Waveform Storage	4 waveforms			
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty			
Waveform Math	+, -, *, /, invert, FFT			
Power Supply	100 - 240V AC, 50Hz / 60Hz, CAT II			

Model	MSO7062TD	MSO7102TD	MSO8102T	MSO8202T
Lissajous Figure	Bandwidth	60MHz	100MHz	200MHz
	Phase Difference	±3 degrees		
Communication Interface		USB host, VGA (optional), and USB device		
Fuse		1A, T class, 250V		
Battery		7.4V 8000mAh (optional)		
Dimensions (W x H x D)		370 x 180 x 120 (mm)		
Device Weight		2.20 kg		

[Logic Analyzer] Performance Specifications

Model	MSO7062TD	MSO7102TD	MSO8102T	MSO8202T
Sample Rate	20S/s - 1GS/s			
Bandwidth	100MHz			200MHz
Channel	16			
Record Length	4M points			
Input Impedance	660KΩ ± 5%, in parallel with 15 ± 5pF			
Trigger Mode	Edge, Bus, State, Data Alignment, Data Width, and Distributed Queue			
Trigger Position Setting	Pre-trigger, Mid-trigger, and Re-trigger			
Threshold Voltage	±6V (4 settings)			
Input Signal Range	±30V			
Data Search	available			
Data System	binary, decimal, and hex			
Digital Filter	0, 1, 2 optional			
Setting Storage	10 settings			
USB Flash Disk Storage	available			

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training mixed signal circuit test

+ Accessories

The accessories subject to final delivery.

Power Cord

CD Rom

Manual

USB Cable

Probe

Probe Adjust

Logic Analyzer Module

Battery (optional)

Soft Bag (optional)

HDS-N Series Handheld Digital Storage Oscilloscope



- + 2 in 1 (DSO + Multimeter)
- + Auto-scale function
- + FFT function
- + 20 group automatic measurement options
- + Bandwidth : 20MHz - 200MHz
- + USB data transmission supported
- + Rechargeable Li-ion battery (6 hours' backup)
- + Waveform record and replay
- + Multimeter newly supported SCPI



+ Performance Specifications

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N	HDS4202M-N
Bandwidth	20MHz	60MHz	100MHz	200MHz
Sample Rate	100MS/s	1GS/s		
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2.5 - 5	5ns/div - 100s/div, step by 1 - 2 - 5		2ns/div - 100s/div, step by 1 - 2 - 5
Rise Time (at input, typical)	≤ 17.5ns	≤ 5.8ns	≤ 3.5ns	≤ 1.7ns
Display	3.7" color TFT display (640 x 480 pixels)			
Channel	dual			
Input Impedance	1MΩ ± 2%, in parallel with 20pF ± 5pF	1MΩ ± 2%, in parallel with 15pF ± 5pF		
Record Length	6K points			
Interpolation	sin(x)/x			
Probe Attenuation Factor	1X , 10X , 100X , 1000X			
Input Coupling	DC, AC, and GND			
DC Accuracy (average)	average >16 : ±(5% reading + 0.05 div) for ΔV			
Vertical Sensitivity	5mV/div - 5V/div (at input)			
Vertical Resolution (A/D)	8 bits			
Max Input Voltage	400V (DC + AC peak, 1MΩ input impedance, probe attenuation 10 : 1), CAT II			
Trigger Type	Edge, Video, and Alternate			
Trigger Mode	Auto, Normal, and Single			
Trigger Level	±6 divisions from screen center			
Acquisition Mode	Sample, Peak Detect, and Average			
DC Gain Accuracy	±3%			
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty			

Model		HDS1022M-N	HDS2062M-N	HDS3102M-N	HDS4202M-N
Waveform Math		+, -, *, /, invert, FFT			
Waveform Storage		4 waveforms			
Lissajous Figure	Bandwidth	full bandwidth			
	Phase Difference	± 3degrees			
Communication Interface		USB			
Power Supply		100V-240V AC, 50/60Hz			
Li-ion Battery		7.4V, 6 hours' operation			
Dimensions (W x H x D)		115 x 180 x 40 (mm)			
Device Weight		645.00 g			

+ Multimeter Specifications

Full Scale Reading	3 ³ / ₄ digits (max 4000 count)	Diode	0V - 1.5V
Input Impedance	10 MΩ	On / Off Test	<50 (± 30) beeping
Voltage	VDC : 400mV, 4V, 40V, 400V, 1000V : ±(1% ± 1 digit); max input : DC 1000V VAC : 4V, 40V, 400V : ±(1% ± 3 digits), 750V : ±(2% ± 3 digits); Frequency : 40Hz - 400Hz; max input : AC 750V (virtual value)		
Current	DC : 40mA, 400mA : ±(1.5% ± 1 digit), 10A : ±(3% ± 3 digits) AC : 40mA : ±(1.5% ± 3 digits), 400mA : ±(2% ± 1 digit), 20A : ±(5% ± 3 digits)		
Impedance	400Ω : ±(1% ± 3 digits), 40KΩ - 4MΩ : ±(1% ± 1 digit), 40MΩ : ±(1.5% ± 3 digits)		
Capacitance	51.2nF - 100uF : ±(3% ± 3 digits)		

Specifications subject to change without prior notice.

+ Application

electronic circuit debugging
education and training

circuit testing
automobile maintenance and testing

design and manufacture

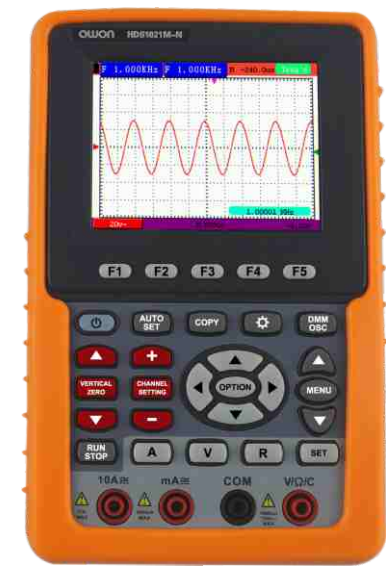
+ Accessories

The accessories subject to final delivery.



HDS Series

1-channel Handheld Digital Storage Oscilloscope



- + 2 in 1 (DSO + Multimeter)
- + Auto-scale function
- + FFT function
- + 20 group automatic measurement options
- + Bandwidth : 20MHz - 100MHz
- + USB data transmission supported
- + Rechargeable Li-ion battery (6 hours' backup)
- + Waveform record and replay
- + Multimeter newly supported SCPI

+ Performance Specifications

Model	HDS1021M-N	HDS2061M-N	HDS3101M-N
Bandwidth	20MHz	60MHz	100MHz
Sample Rate	500MS/s	500MS/s	1GS/s
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2.5 - 5		
Rise Time (at input, typical)	≤ 17.5ns		
Display	3.7" color TFT display (640 x 480 pixels)		
Channel	single		
Input Impedance	1MΩ ± 2%, in parallel with 18pF ± 5pF		
Record Length	6K points		
Interpolation	sin(x)/x		
Probe Attenuation Factor	1X , 10X , 100X , 1000X		
Input Coupling	DC, AC, and GND		
DC Accuracy (average)	average > 16 : ± (5% reading + 0.05 div) for ΔV		
Vertical Sensitivity	5mV/div - 5V/div (at input)		
Vertical Resolution (A/D)	8 bits		
Max Input Voltage	400V (DC + AC peak, 1MΩ input impedance, probe attenuation 10 : 1), CAT II		
Trigger Type	Edge, and Video		
Trigger Mode	Auto, Normal, and Single		
Trigger Level	±6 divisions from screen center		
Acquisition Mode	Sample, Peak Detect, and Average		
DC Gain Accuracy	±3%		
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty		
Waveform Storage	4 waveforms		
Communication Interface	USB		
Power Supply	100V-240V AC, 50/60Hz		
Li-ion Battery	7.4V, 6 hours' operation		
Dimensions (W x H x D)	115 x 180 x 40 (mm)		
Device Weight	645.00 g		

+ Multimeter Specifications

Full Scale Reading	3 3/4 digits (max 4000 count)	Diode	0V - 1.5V
Input Impedance	10 MΩ	On / Off Test	<50 (± 30) beeping
Voltage	VDC : 400mV, 4V, 40V, 400V, 1000V : ±(1% ± 1 digit); max input : DC 1000V VAC : 4V, 40V, 400V : ±(1% ± 3 digits), 750V : ±(2% ± 3 digits); Frequency : 40Hz - 400Hz; max input : AC 750V (virtual value)		
Current	DC : 40mA, 400mA : ±(1.5% ± 1 digit), 10A : ±(3% ± 3 digits) AC : 40mA : ±(1.5% ± 3 digits), 400mA : ±(2% ± 1 digit), 20A : ±(5% ± 3 digits)		
Impedance	400Ω : ±(1% ± 3 digits), 40KΩ - 4MΩ : ±(1% ± 1 digit), 40MΩ : ±(1.5% ± 3 digits)		
Capacitance	51.2nF - 100uF : ±(3% ± 3 digits)		

Specifications subject to change without prior notice.

+ Application

- electronic circuit debugging
education and training
- circuit testing
automobile maintenance and testing
- design and manufacture

+ Accessories

The accessories subject to final delivery.


Power Cord

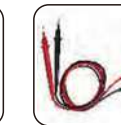

CD Rom


Manual


USB Cable


Probe


Probe Adjust


Multimeter Lead


Adapter


5V, 1KHz Output


Current Extension Module


Capacitance Ext Module


Soft Bag


Metal Case (optional)

HDS-I Series

Handheld DSO w/ Channel Isolation



- + 2 in 1 (DSO + Multimeter)
- + with good ISOLATION between channels
- + Auto-scale function
- + FFT function
- + 20 group automatic measurement options
- + Bandwidth : 20MHz
- + USB data transmission supported
- + Rechargeable Li-ion battery
- + Multimeter newly supported SCPI

+ Performance Specifications

Model		HDS1022M-I
Bandwidth		20MHz
Sample Rate		100MS/s
Rise Time (at input, typical)		≤ 17.5ns
Record Length		6K points
Channel		dual, insulated ground of 1000 : 1
Display		3.7" color TFT LCD, 640 x 480 pixels
Floating Meas. Channel		insulated input ground between multimeter / oscilloscope mode
Input Coupling		DC, AC, and GND
Input Impedance		1MΩ ± 2%, in parallel with 15pF ± 5pF
Horizontal Scale (s/div)		5ns/div - 100s/div, step by 1 - 2 - 5
Interval (Δ T) Accuracy		single: ±(1 interval time + 100ppm x reading + 0.6ns), average>16: ±(1 interval time + 100ppm x reading + 0.4ns)
Vertical Sensitivity		5mV/div - 5V/div (at input)
Vertical Resolution (A/D)		8 bits
Max Input Voltage		400V (DC + AC peak, 1MΩ input impedance, probe attenuation 10 : 1), CAT II
Trigger Type	Edge	rising edge, falling edge
	Video	line, field, randomline, odd / even fields
	Alternate	
Trigger Mode		Auto, Normal, and Single
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty
DC Accuracy (average)		average > 16 : ±(5% reading + 0.05 div) for ΔV
Waveform Math		+, -, *, /, invert, FFT
Waveform Storage		4 waveforms
Lissajous Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees

Model	HDS1022M-I
Cursor Measurement	ΔV, and ΔT between cursors
Communication Interface	USB host, and USB device
Battery	built-in Li-ion battery, 7.4V / 3500mAh
Dimensions (W x H x D)	113 x 180 x 40 (mm)
Device Weight	645.00 g

+ Multimeter Specifications

Full Scale Reading	3 ³ / ₄ digits (max 4000 count)	Diode	0V - 1.5V
Input Impedance	10 MΩ	On / Off Test	<50 (± 30) beeping
Voltage	VDC : 400mV, 4V, 400V, 1000V : ±(1% ± 1 digit); max input : DC 1000V VAC : 4V, 40V, 400V : ±(1% ± 3 digits), Frequency : 40Hz - 400Hz;max input : AC 750V (virtual value)		
Current	DCA: 40mA, 400mA: ±(1.5% ±1 digit), 10A: ±(3% ± 3 digits) ACA: 40mA: ±(1.5% ± 3 digit); 400mA: ±(2 ± 1 digit); 10A: ±(3% ± 3 digits)		
Impedance	400Ω: ±(1% ± 3 digits); 4KΩ / 40KΩ / 400 KΩ / 4MΩ: ±(1% ± 1 digit); 40MΩ: ±(1.50% ± 3 digits)		
Capacitance	51.2nF - 100uF : ±(3% ± 3 digits)		

Specifications subject to change without prior notice.

+ Application

- electronic circuit debugging
education and training
- circuit testing
automobile maintenance and testing
- design and manufacture

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Probe



Probe Adjust



Multimeter Lead



Adapter



5V, 1KHz Output



Current Extension Module



Capacitance Ext Module



Soft Bag



Metal Case (optional)

Wave Rambler Pen-type PC Oscilloscope



- + 25MHz bandwidth
- + 100MS/s sample rate
- + 5K record length
- + FFT function
- + human engineering design
- + multi- action mode via creative trackball
- + multi- trigger option : edge, slope, and pulse
- + 5mV micro signal supported
- + USB bus powering, and optional USB isolated function
- + easy portability, pocket accommodated



The full DSO in your pocket

Pen-type design with easy portability, the ideal solution for on-site measurement.



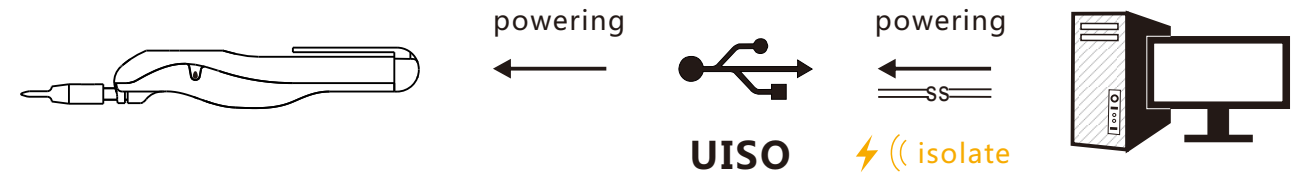
Designed to be easily- disassembled

Special metal material made probe- tip assures durable lifetime.

	The running/ stopping of Wave Rambler, is under the control of trackball.
	The zero voltage position, horizontal trigger position, and voltage base / time base could be adjusted by rolling the trackball, which makes the device-operation more comfortable, and convenient.
	The waterdrop-shape button brings you into 4 control options - the setting of trackball function, single trigger, force trigger, and autoset.

UIISO function

Creative USB isolation function fulfills direct device- powering via USB port, and supports floating measurement (isolation voltage upto 1000V), making the operation more user-friendly, assuring safer T&M environment, and decreasing the interference to micro signal- measuring to the minimum.



+ Performance Specifications

Model	RDS1021	RDS1021I
Bandwidth	25MHz	
Sample Rate	100MS/s	
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5	
Rise Time	≤14ns	
Record Length	5K	
Input Coupling	DC, AC, and GND	
Input Impedance	10MΩ±2% (X10), 1MΩ±2% (X1)	
Input Capacitance	20pF±5pF	
Max Input Voltage	50V (DC + AC peak)	400V (DC + AC peak)
DC Gain Accuracy	±3%	
DC Accuracy (average)	average≥16 : ±(3% reading + 0.05 div) for ΔV	
Analog Bandwidth	25MHz	
Probe Attenuation Factor	1X, 10X	
LF Respond (AC,-3dB)	≥10Hz	
Interpolation	sin(x)/x	
Displacement	±10 divisions	
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns), Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)	
Vertical Resolution (A/D)	8 bits	
Vertical Sensitivity	5mV/div - 5V/div	
Trigger Type	Edge, Pulse, and Slope	
Trigger Mode	Auto, Normal, and Single	
Trigger Level	±5 divisions from screen center	
Acquisition Mode	Sample, Peak Detect, and Average	
Cursor Measurement	ΔV and ΔT between cursors	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty	
Waveform Math	FFT	
Communication Interface	USB2.0	
Dimension (W x H x D)	150 x 20 x 18 (mm)	
Device Weight	0.27 kg	

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.

Grounding Clamp

Protection Cover

USB flash disk

Manual

USB Cable

VDS Series

PC Oscilloscope



CE

+ Up to 100MHz bandwidth,
and max 1GS/s real-time sample rate

+ 2 / 4 channels

+ Max 10M record length

+ Friendly UI : FFT, or X-Y, and waveform 2 views
displayed on the same screen

+ Multi-trigger option :
edge, video, slope, pulse, and alternate

+ USB isolation - less signal inference, more PC protection

+ USB bus powering, and LAN remote control (optional)

+ Ultra-thin body design, easy portability

+ SCPI supported

+ LabVIEW supported (only in VDS3102, and VDS3104)

+ Performance Specifications

Model	VDS1022I	VDS1022	VDS2052	VDS2062	VDS2064	VDS3102	VDS3104					
Bandwidth	25MHz		50MHz	60MHz		100MHz						
Channel	2+1 (multi)				4+1 (multi)	2+1 (multi)	4+1 (multi)					
Sample Rate	100MS/s		250MS/s	500MS/s		1GS/s						
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5					2ns/div - 100s/div, step by 1 - 2 - 5						
Rise Time	≤14ns			≤5.8ns		≤3.5ns						
Record Length	5K			10M	5M	10M	5M					
Input Coupling	DC, AC, and GND											
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF											
Channel Isolation	50Hz : 100 : 1 ; 10MHz : 40 : 1											
Max Input Voltage	400V (DC + AC peak)		40V (DC + AC peak)									
DC Gain Accuracy	±3%											
DC Accuracy	Average≥16 : ±(3% reading + 0.05 div) for ΔT											
Probe Attenuation Factor	1X, 10X, 100X, 1000X											
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)											
Sample Rate / Relay Time Accuracy	150ps											
Interpolation	sin(x)/x											
Interval (ΔT) Accuracy (full bandwidth)	Single : ± (1 interval time + 100ppm × reading + 0.6ns), Average >16 : ±(1 interval time + 100ppm × reading + 0.4ns)											
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)											

Model		VDS1022I	VDS1022	VDS2052	VDS2062	VDS3102	VDS2064	VDS3104					
Vertical Sensitivity		5mV/div - 5V/div											
Trigger Type		Edge, Pulse, Video, Slope, and Alternate											
Trigger Mode		Auto, Normal, and Single											
Trigger Level		± 5 divisions from screen center											
Acquisition Mode		Sample, Peak Detect, and Average											
Line / Field Frequency (video)		NTSC, PAL, and SECAM standard											
Cursor Measurement		ΔV, and ΔT between cursors											
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty											
Waveform Math		+, -, *, /, invert, FFT											
Lissajous Figure	Bandwidth	full bandwidth											
	Phase Difference	± 3 degrees											
Communication Interface		USB2.0 (isolation)		USB2.0		USB2.0, LAN (optional)							
Multi-function Interface	Signal Type	synchronized input / output, Pass / Fail, external trigger input											
	Level Standard	TTL											
Power Supply		5.0V/1A											
Power Consumption		≤1.5W			≤5W								
Dimensions (W x H x D)		170 x 120 x 18 (mm)			190 x 120 x 18 (mm)								
Device Weight		0.26 kg					0.30 kg						

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.



Probe



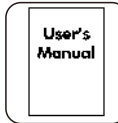
Probe Adjust



Power Cord*



CD Rom



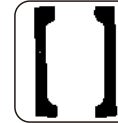
Manual



USB Cable



Adapter*



Silicon Gel Case



Soft Bag (optional)

* Power cord and adapter only available for models with LAN port.

25

26

AG Series Dual-channel Arbitrary Waveform Generator



- + Advanced DDS technology, max 60MHz frequency output
- + Up to 250MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- + SCPI, and LabVIEW supported
- + 4 inch high resolution (480 x 320 pixels) LCD

+ could work with OWON SDS Series DSO smoothly

+ Performance Specifications

Model	AG1012	AG1012F	AG1022	AG1022F	AG2052F	AG2062F
Channel	dual					
Frequency Output	10MHz		25MHz		50MHz	60MHz
Sample Rate	125MS/s				250MS/s	
Vertical Resolution	14 bits					
Waveform						
Standard Waveform	Sine, Square, Pulse, Ramp, and Noise					
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrary waveform					
Frequency (resolution 1μHz)						
Sine	1μHz - 10MHz		1μHz - 25MHz		1μHz - 50MHz	1μHz - 60MHz
Square	1μHz - 5MHz				1μHz - 25MHz	1μHz - 30MHz
Pulse	1μHz - 5MHz				1μHz - 10MHz	
Ramp	1μHz - 1MHz					
Noise	25MHz (-3dB) (typical)					
Arbitrary Waveform	1μHz - 10MHz					
Amplitude						
Amplitude	1m Vpp - 10 Vpp (50Ω), 1m Vpp - 20 Vpp (high impedance)					
Resolution	1m Vpp or 4 digits					
DC Offset Range (AD+DC)	±5V (50Ω), ±10V (high impedance)					
DC Offset Range Resolution	1mV or 4 digits					
Load Impedance	50Ω (typical)					

Model	AG1012	AG1022	AG1012F	AG1022F	AG2052F	AG2062F
Arbitrary Waveform						
Wave Length	2 pts to 8K pts				2 pts to 1M pts	
Non-volatile Memory	64M byte					
Modulation						
Modulation Waveform	/	AM, FM, PM, FSK, Sweep, and Burst			AM, FM, PM, FSK, PWM, Sweep, and Burst	
Modulation Frequency	/	2mHz to 20.00KHz (FSK 1μHz - 100KHz)				
Counter						
Function	/	Frequency Period, +Width, -Width, +Duty, and -Duty				
Frequency Range	/	100mHz - 200MHz				
Frequency Resolution	/	6 digits				
Power Amplifier Module (optional)						
Input Impedance	50 kΩ		Output Impedance		<2 Ω	
Max Input Voltage	2.2Vpp		Gain		X10	
Max Output Voltage	22Vpp		Offset		<7%	
Output Slew Rate	10V/us		Bandwidth (at full power)		DC 100kHz	
Max Output Power	10W					
Input / Output						
Display	4 inch (480 x 320 pixels) LCD					
Type	external reference clock input / output		counter external modulation input / output, external trigger input / output, external reference clock input / output			
Communication Interface	USB host, and USB device, LAN (surport remote control), RS232 (option)					
Mechanical						
Dimension (W x H x D)	235 x 110 x 295 (mm)					
Device Weight	3.00 kg					

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Q9

AG-S Series

Single-channel Arbitrary Waveform Generator - {80 - 150MHz}



- + Advanced DDS technology, max 150MHz frequency output
- + Up to 400MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + SCPI, and LabVIEW supported
- + 4 inch high resolution (480 x 320 pixels) LCD
- + could work with OWON SDS Series DSO smoothly

+ Performance Specifications

Model	AG4081	AG4101	AG4121	AG4151
Channel	single + trigger			
Frequency Output	80MHz	100MHz	120MHz	150MHz
Sample Rate	400MS/s			
Vertical Resolution	14 bits			

Standard Waveform	Sine, Square, Pulse, Ramp, and Noise			
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrary waveform			

Frequency (resolution 1μHz)				
Sine	1μHz - 80MHz	1μHz - 100MHz	1μHz - 120MHz	1μHz - 150MHz
Square	1μHz - 40MHz	1μHz - 50MHz		
Pulse	1μHz - 20MHz	1μHz - 25MHz		
Ramp	1μHz - 1MHz			
Noise	50MHz (-3dB) (typical)			
Arbitrary Waveform	1μHz - 10MHz			

Amplitude		10m Vpp - 10 Vpp (50Ω), 20m Vpp - 20 Vpp (high impedance)
Resolution	1m Vpp or 4 digits	
DC Offset Range (AD+DC)	±5V (50Ω), ±10V (high impedance)	
DC Offset Range Resolution	1mV or 4 digits	
Load Impedance	50Ω (typical)	

Model	AG4081	AG4101	AG4121	AG4151
Arbitrary Waveform				
Wave Length	2 pts to 1M pts			
Sample Rate	200MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	64M byte			
Modulation (optional)				
Modulation Waveform	AM, FM, PM, FSK, PWM, Sweep, and Burst			
Modulation Frequency	2mHz to 20.00KHz (FSK 1μHz - 100KHz)			
Input / Output				
Display	4 inch (480 x 320 pixels) LCD			
Type	external modulation input, external trigger input / output, external reference clock input / output			
Communication Interface	USB host, USB device, RS232, and LAN			
Mechanical				
Dimension (W x H x D)	235 x 110 x 295 (mm)			
Device Weight	3.00 kg			

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

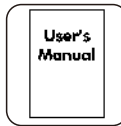
The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Q9

AG-S Series

Single-channel Arbitrary Waveform Generator - {5 - 10MHz}



- + Advanced DDS technology, upto 10MHz frequency output
- + 125MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, and 8K arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, Sweep, and Burst
- + SCPI, and LabVIEW supported
- + 4" high resolution (480 x 320 pixels) LCD

+ Performance Specifications

Model	AG051	AG051F	AG1011	AG1011F
Channel	single + trigger			
Frequency Output	5MHz		10MHz	
Sample Rate	125MS/s			
Vertical Resolution	14 bits			

Waveform

Standard Waveform	Sine, Square, Pulse, Ramp, and Noise
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrary waveform

Frequency (resolution 1μHz)

Sine	1μHz - 5MHz	1μHz - 10MHz
Square	1μHz - 5MHz	
Pulse	1μHz - 5MHz	
Ramp	1μHz - 1MHz	
Noise	5MHz (-3dB) (typical)	
Arbitrary Waveform	1μHz - 5MHz	

Amplitude

Amplitude	1m Vpp - 12.5 Vpp (50Ω), 1m Vpp - 25 Vpp (high impedance)
Resolution	1m Vpp, or 4 digits
DC Offset Range (AD+DC)	±6.25V (50Ω), ±12.5V (high impedance)
DC Offset Range Resolution	1mV, or 4 digits
Load Impedance	50Ω (typical)

Model	AG051	AG051F	AG1011	AG1011F
Arbitrary Waveform				
Wave Length	2 pts to 8K pts			
Sample Rate	125MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	64M byte			
Modulation (optional)				
Modulation Waveform	/	AM, FM, PM, FSK, Sweep, and Burst	/	AM, FM, PM, FSK, Sweep, and Burst
Modulation Frequency	/	2mHz to 20.00KHz (FSK 2mHz - 100KHz)	/	2mHz to 20.00KHz (FSK 2mHz - 100KHz)
Input / Output				
Display	4 inch (480 x 320 pixels) LCD			
Type	external reference clock input	external modulation input, external trigger input, external reference clock input	external reference clock input	external modulation input, external trigger input, external reference clock input
Communication Interface	USB device			
Mechanical				
Dimension (W x H x D)	235 x 110 x 295 (mm)			
Device Weight	3.00 kg			

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.



Power Cord CD Rom Manual USB Cable Q9

DP Series

Programmable DC Power Supply



[ODP3031]

[ODP3032]



- + ODP3032 : two independent controllable channels; ODP3031 : one controllable channel
- + Max output resolution : 1mV / 1mA
- + Low ripples / low noise : <300 μ Vrms / 2 mVpp
- + Up to 100 group timers
- + Up to 10 group preset system configurations
- + Over-voltage / Over-current protection
- + Auto-cooling system
- + 3.9 inch high resolution (480 x 320 pixels) LCD
- + USB2.0, and RS232 seril port digital communication supported
- + SCPI, and LabVIEW supported

+ Display

Model	ODP3031	ODP3032
Display Type	3.9 inch colored LCD	
Display Resolution	480 x 320 pixels	
Display Color	65536 colors	

+ Mechanical Specifications

Model	ODP3031	ODP3032
Dimension (W x H x D)	250 x 158 x 358 (mm)	
Device Weight	7.00 kg	10.50 kg

+ Performance Specifications

The specifications based upon the instrument having run for at least 30 minutes continuously, under the specified operating environment.

Model		ODP3031		ODP3032	
Channel		1	Fixed 3.3V / 5V	2 (independent)	Fixed 5V
DC Output Rating	Voltage	0 - 30V	3.3V / 5V	0- 30V (Independent / Parallel) 0 - 60V (Series) -30V - 30V (Plus-minus)	5V
	Current	0 - 3A	3A	0 - 3A (Independent / Series / Plus-minus), 0 - 6A (Parallel)	3A
Line Regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 3\text{mV}$
	CC	$\leq 0.1\% + 3\text{mA}$	/	$\leq 0.1\% + 3\text{mA}$	/
Load Regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 0.1\% + 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$	$\leq 0.1\% + 3\text{mV}$
	CC	$\leq 0.2\% + 3\text{mA}$	/	$\leq 0.2\% + 3\text{mA}$	/
Noise and Ripple (20Hz - 7MHz)	CV	$\leq 300\text{ }\mu\text{Vrms} / 2\text{ mVpp}$		$\leq 300\text{ }\mu\text{Vrms} / 2\text{ mVpp}$	
	CC	$\leq 3\text{mA}_{\text{rms}}$	/	$\leq 3\text{mA}_{\text{rms}}$	/
Settings Resolution	Voltage	1mV	/	1mV	/
	Current	1mA	/	1mA	/
Settings Accuracy (25°C $\pm$ 5°C)	Voltage	$\leq 0.05\% + 3\text{mV}$	/	$\leq 0.05\% + 3\text{mV}$	/
	Current	$\leq 0.1\% + 3\text{mA}$	/	$\leq 0.1\% + 3\text{mA}$	/
Read Back Resolution	Voltage	1mV (<10V), 10mV ($\geq 10\text{V}$)	/	1mV (<10V), 10mV ($\geq 10\text{V}$)	/
	Current	1mA	/	1mA	/
Read Back Accuracy (25°C $\pm$ 5°C)	Voltage	$\leq 0.05\% + 3\text{ digits}$	/	$\leq 0.05\% + 3\text{ digits}$	/
	Current	$\leq 0.1\% + 3\text{ digits}$	/	$\leq 0.1\% + 3\text{ digits}$	/

Specifications subject to change without prior notice.

+ Application

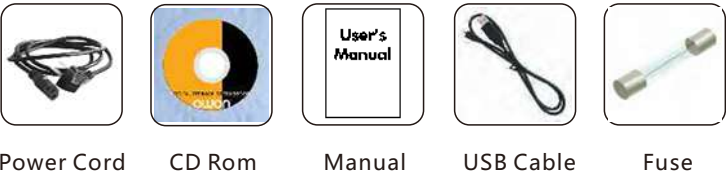
general detection in R&D laboratory
automobile and electronic circuit test
electronic components test, aging test
to monitor battery charging curve

QC test
power-supplying
to monitor the real-time status of power system via remote control

industrial production automation test
education / teaching experimentation

+ Accessories

The accessories subject to final delivery.



XDM Series

Bench-type Digital Multimeter



- + 4 inch 480 x 320 pixels high resolution LCD
 - + true 5 (1/2) digit display accuracy
 - + up to 150 rdgs/s measuring speed
 - + true RMS AC voltage / current measurement
 - + dual-display supported
 - + SCPI supported - remote control, and data-sharing possible via LAN, USB, RS232 port, and WiFi*
 - + multi-CI: USB Device / Host, RS232, LAN, square wave output, and ext. trigger input
- * WiFi module is optional

+ Basic Measurement

DC voltage / current, AC voltage / current, 2/4-line resistance, capacitance, diode, continuity, frequency, period, temperature (multi- thermocouple, and thermal resistance supported)

+ Miscellaneous

bar chart, column chart, trend chart, max / min value, average value, standard deviation, relative value, DB/DBm, Pass / Fail

+ Performance Specifications

XDM3051	Measurement Range	Frequency Range	Measuring Accuracy (± (% of reading + % of range))
DC Voltage	200mV, 2V, 20V, 200V, 1000V	/	0.015±0.004
AC Voltage	200mV, 2V, 20V, 200V, 750V	20 Hz - 45 Hz	1.5 + 0.10
		45 Hz - 20 kHz	0.2 + 0.05
		20 kHz - 50 kHz	1.0 + 0.05
		50 kHz - 100 kHz	3.0 + 0.05
True RMS DC Current	200.000 µA	/	0.055 + 0.005
	2.00000 mA		0.055 + 0.005
	20.0000 mA		0.095 + 0.020
	200.000 mA		0.070 + 0.008
	2.00000 A		0.170 + 0.020
	10.0000 A		0.250 + 0.010
True RMS AC Current	20.0000 mA, 200.000 mA, 2.00000 A, 10.0000 A	20 Hz - 45 Hz	1.5 + 0.10
		45 Hz - 2 kHz	0.50 + 0.10
		2 kHz - 10 kHz	2.50 + 0.20

XDM3051	Measurement Range	Frequency Range	Measuring Accuracy (± (% of reading + % of range))
Resistance	200.000 Ω	/	0.030 + 0.005
	2.00000 kΩ		0.020 + 0.003
	20.0000 kΩ		0.020 + 0.003
	200.000 kΩ		0.020 + 0.003
	2.00000 MΩ		0.040 + 0.004
	10.0000 MΩ		0.250 + 0.003
	100.000 MΩ		1.75 + 0.004
Diode Test	2.0000 V	/	0.05 + 0.01
Continuity	2000 Ω	/	0.05 + 0.01
Frequency Period	200 mV - 750 V	20 Hz - 2 kHz	0.01 + 0.003
		2 kHz - 20 kHz	0.01 + 0.003
		20 kHz - 200 kHz	0.01 + 0.003
		200 kHz - 1 MHz	0.01 + 0.006
	20 mA - 10 A	20 Hz - 2 kHz	0.01 + 0.003
		2 kHz - 10 kHz	0.01 + 0.003
		Test Current	
Capacitance	2.000 nF	200 nA	3 + 1.0
	20.00 nF	200 nA	1 + 0.5
	200.0 nF	2 μA	1 + 0.5
	2.000 μF	10 μA	1 + 0.5
	200 μF	100 μA	1 + 0.5
	10000 μF	1 mA	2 + 0.5
Temperature	temperature sensors under 2 categories supported - thermocouple (ITS-90 conversion between B / E / J / K / N / R / S / T type), and thermal resistance (RTD sensor conversion between Pt100 and Pt385 type)		
Data-logger Function			
Logging Duration	5ms		
Logging Length	1M points		
General			
Dimension (W x H x D)		235 x 110 x 295 (mm)	
Weight (without package)		3.00 kg	

Specifications subject to change without prior notice.

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Fuse



Multimeter
Lead



Alligator Clip

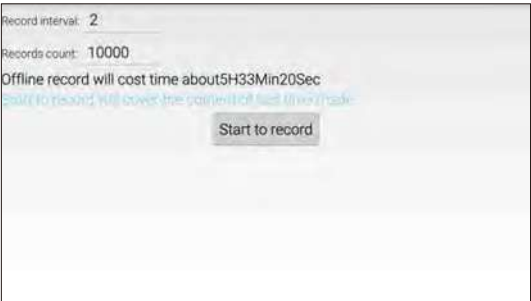
DM Series
Bluetooth Digital Multimeter



- + function as 3 in 1 : datalogger + multimeter + temperature meter
- + multi-connection (more than one device) supported via mobile app
- + the change trend analysis accessible via special chart mode
- + voice warning supported, which assures measurement safety
- + smart voice-reading accessible
- + 4000 / 6000 - count full scale reading
- + larger display, easier data-reading; simulated bar chart comes as an added option
- + offline recording function (only in B33+, B35+, and B35T+)
- + true RMS value available (only in B35T, and D35T)
- + Bluetooth 2.0 version - supports mobile device with Android 4.0 or above OS
- + Bluetooth 4.0 version - supports mobile device with Android 4.3 or above / iOS 7.0 or above OS, and equipped with ble 4.0 module

offline recording function - your process analyzer

B33+ / B35+ / B35T+ possible to record data into memory, but no need to leave mobile device on-site when data-processing, use mobile device to recall the saved data offline data-recording could continue for max 7 days (168 hours)

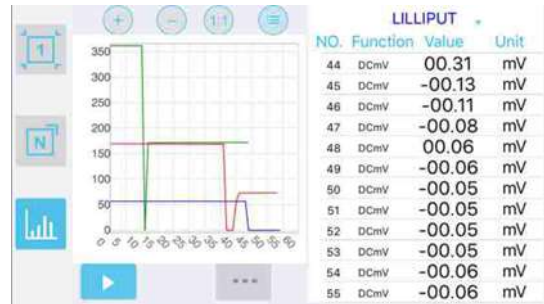


+ Performance Specifications

Model		D35	D35T	B35	B35T	B35+	B35T+
		Measurement Range				Resolution	Accuracy
DC Voltage	mV	60.00mV / 600.0mV				0.01mV	±(0.5%+2-digit)
	V	60.00mV / 600.0mV / 6.000V / 60.00V				0.1mV	
		600.0V / 1000V				0.1V	
AC Voltage	mV	60.00mV / 600.0mV				0.01mV	±(0.8%+2-digit)
	V	60.00mV / 600.0mV / 6.000V / 60.00V				1mV	±(0.8%+2-digit)
		600.0V / 750V				0.1V	±(1%+3-digit)
DC Current	µA	600.0µA				0.1µA	±(0.8%+2-digit)
	mA	600.0µA / 6.000mA / 60.00mA / 600.0mA / 6.000A				0.01mA	±(0.8%+2-digit)
	A	20.00A				1mA	±(1.2%+3-digit)
AC Current	µA	600.0µA				0.1µA	±(1%+3-digit)
	mA	600.0µA / 6.000mA / 60.00mA / 600.0mA / 6.000A				0.01mA	±(0.8%+2-digit)
	A	20.00A				1mA	±(2%+3-digit)
Resistance		600.0Ω / 6.000kΩ / 60.00kΩ / 600.0kΩ / 6.000MΩ / 10.00MΩ				0.1Ω	±(0.8%+2-digit)
		60.00MΩ				0.01MΩ	±(2%+3-digit)
Capacitance		40.00nF				0.01nF	±(2.5%+3-digit)
		400.0nF / 4.000µF / 40.00µF				0.1nF	±(2.5%+3-digit)
		400.0µF / 4000µF				0.1µF	±(3%+5-digit)
Frequency		9.999Hz / 99.99Hz / 999.9Hz / 9.999kHz / 99.99kHz / 999.9kHz / 9.999MHz				1mHz	±(0.8%+2-digit)
Duty Ratio		0.1% - 99.9% (typical value: Vrms = 1V, f = 1kHz)				0.1%	±(1.2%+3-digit)
		0.1% - 99.9% (≥1kHz)					±(2.5%+2-digit)
Temperature		(-50°C) - (+400°C)				1°C	±(2.5%+3-digit)
		(-58°F) - (+752°F)				1°F	±(4.5%+5-digit)
Display		6000 count					
Frequency Response		40Hz - 400Hz					
Shift Rate		3 times / s					
Simulated Chart Shift Rate		30 times / s					

functioning as multimeter + datalogger

the measured data always updated, and auto- recorded to mobile device, saving labor to do on-site records; the recoding duration, and sampling duration could be customized, accessible in chart mode, facilitating comparison analysis between several B35



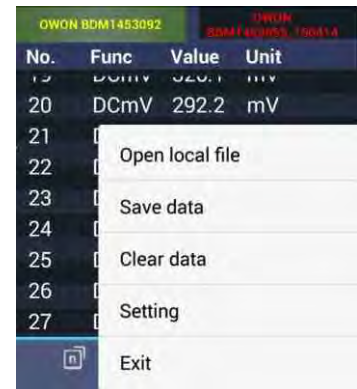
remote control supported

the function activated after TTS voice pack installed, which frees the eye-watch, making on-site measurement more comfortable



data- saving, recalling, and comparatively analyzing

CSV format data export supported, the history data could be recalled for comparison analysis; with the assistance of chart mode, the measured result more visualized, easier for decision- making



Auto-scale	√	Max / Min Value	√
Offline Recording Function	available in B35+, and B35T+	Bluetooth Module	available in B35, B35+, B35T, and B35T+
Record Period	168 hours (7 days)	LCD Backlight	√
Record Length	10,000 points	Simulated Chart	√
True RMS	available in D35T, B35T, and B35T+	Input Protection	√
Diode Test	√	Input Impedance	10MΩ
Audion Test	√	LCD Size	69mm x 52mm
Auto Power-off	√	Display Area	67 x 46 mm (effective area 66 x 45 mm)
On-off Warning	√	Battery	3V (1.5V x 2)
Low-battery Indicator	√	Dimension (W x H x D)	85 x 185 x 30 (mm)
Data Hold	√	Device Weight	0.32 kg
Relative Measurement	√		

Specifications subject to change without prior notice.

Model		D33	B33	B33+	
		Measurement Range		Resolution	Accruacy
DC Voltage	V	400.0mV / 4.000V / 40.00V / 400.0V		0.1mV	±(0.5%+2-digit)
		1000V		1V	±(0.8%+2-digit)
AC Voltage	V	4.000V / 40.00V		1mV	±(0.8%+2-digit)
		400.0V / 750V		0.1V	±(1%+3-digit)
DC Current	µA	400.0µA / 4000µA		0.1µA	±(0.8%+2-digit)
	mA	40.00mA / 400.0mA		0.01mA	±(0.8%+2-digit)
	A	1.000A / 10.00A		1mA	±(1.2%+3-digit)
AC Current	µA	400.0µA / 4000µA		0.1µA	±(1%+3-digit)
	mA	40.00mA / 400.0mA		0.01mA	±(0.8%+2-digit)
	A	1.000A / 10.00A		1mA	±(2%+3-digit)
Resistance		400.0Ω / 4.000kΩ / 40.00kΩ / 400.0kΩ / 4.000MΩ		0.1Ω	±(0.8%+2-digit)
		40.00MΩ		0.01MΩ	±(2%+3-digit)
Capacitance		40.00nF / 400.0nF / 4.000µF / 40.00µF		0.01nF	±(2.5%+3-digit)
		100.0µF		0.1µF	±(3%+5-digit)
Frequency		4.999Hz / 49.99Hz / 499.9Hz / 4.999kHz / 49.99kHz / 499.9kHz / 4.999MHz		1mHz	±(0.8%+2-digit)
Duty Ratio		0.1% - 99.9% (typical value: Vrms = 1V, f = 1kHz)		0.1%	±(1.2%+3-digit)
		0.1% - 99.9% (≥1kHz)			±(2.5%+3-digit)
Temperature		-50℃ - 400℃		1℃	±(2.5%+3-digit)
Display		3999 count			
Frequency Response		40Hz - 400Hz			
Shift Rate		3 times / s			

Auto-scale	√	Max / Min Value	√
Offline Recording Function	available in B33+	Bluetooth Module	available in B33, and B33+
Record Period	168 hours (7 days)	LCD Backlight	√
Record Length	10,000 points	Input Protection	√
Diode Test	√	Input Impedance	10MΩ
Simulated Chart	√	LCD Size	69mm x 52mm
Auto Power-off	√	Display Area	67 x 46 mm (effective area 66 x 45 mm)
On-off Warning	√	Battery	3V (1.5V x 2)
Low-battery Indicator	√	Dimension (W x H x D)	85 x 185 x 30 (mm)
Data Hold	√	Device Weight	0.32 kg
Relative Measurement	√		

Specifications subject to change without prior notice.

+ Application

electronic circuit debugging
education and training

circuit testing
automobile maintenance and testing

design and manufacture
automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.



Multimeter Lead



K-type Thermocouple



Manual



BT.0

mobile app accessible via scanning QR code

optional accessories:



Alligator Clip



Multi-function Test Bench
(excl. D33 / B33 / B33+)



Soft Bag



BLE4.0

mobile app accessible via scanning QR code

Current Probe

	Model	CP-05 ⁺				
	Test Range	1mA - 400A				
	Resolution	1mA				
	Bandwidth	DC - 200KHz (±3dB)				
	Jaw Size	23mm (Max)				
	Auto Zero at Power on	√				
	Power Supply	9V 6F22 Battery				
	Operating Temperature	0°C to 50°C				
	Operating Humidity	15% to 70% RH				
	DC Current	Range	AC 4A	AC 40A	AC 200A	AC 200A ~ 400A
		Accuracy	±2.0%rdg±5 digit			±3.0%rdg±5 digit
		Sensitivity	1mV/10mA	1mV/0.1A	1mV/1A	
	DC Current	Range	DC 4A	DC 40A	DC 200A	DC 200~400A
		Accuracy	±1.5%rdg±5 digit			±3.0%rdg±5 digit
		Sensitivity	1mV/10mA	1mV/0.1A	1mV/1A	
	Dimension (W x H x D)	180 x 30 x 44 (mm)				
	Device Weight	about 200g				

Specifications subject to change without prior notice.

+ Accessories

The accessories subject to final delivery.



Soft Bag

	Model	CP-07 ⁺		
	Test Range	400mA - 4A		
	Resolution	0.1mA		
	Bandwidth	DC - 1MHz (±3dB)		
	Jaw Size	5mm (Max)		
	Auto Zero at Power on	√		
	Power Supply	9V 6F22 Battery		
	Operating Temperature	0°C to 50°C		
	Operating Humidity	15% to 70% RH		
	DC Current	Range	DCA 400mA	DCA 4A
		Accuracy	±1.5%rdg±5 digit	
		Sensitivity	1mV/1mA	1mV/10mA
	AC Current	Range	ACA 400mA	ACA 4A
Accuracy		±2.0%rdg±5 digit		
Sensitivity		1mV/1mA	1mV/10mA	
Dimension (W x H x D)	215 x 36 x 58 (mm)			
Device Weight	about 200g			

Specifications subject to change without prior notice.

+ Accessories

The accessories subject to final delivery.



BNC cable



Extension cord



Soft Bag

General Probe

	Model No	P6060	P6100	P6200
	Attenuation Ratio	1X or 10X	1X or 10X	1X or 10X
	Bandwidth	1X : DC-6MHz	1X : DC-6MHz	1X : DC-6MHz
		10X : DC-60MHz	10X : DC-100MHz	10X : DC-200MHz
	Input R	1MΩ/10MΩ	1MΩ/10MΩ	1MΩ/10MΩ
	Input C	1X : 85pF - 120pF	1X : 85pF - 120pF	1X : 85pF - 120pF
		10X : 18.5pF - 22.5pF	10X : 18.5pF - 22.5pF	10X : 18.5pF - 22.5pF
	Max Input Voltage	1X : <300VDC + AC Vpp	1X : <300VDC + AC Vpp	1X : <300VDC + AC Vpp
		10X : <600VDC + AC Vpp	10X : <600VDC + AC Vpp	10X : <600VDC + AC Vpp

	Model No	P4060	P4100	P4200	P4250
	Attenuation Ratio	100X	100X	100X	100X
	Bandwidth	10X : DC-60MHz	10X : DC-100MHz	10X : DC-200MHz	10X : DC-250MHz
	Input R	100MΩ	100MΩ	100MΩ	100MΩ
	Input C	100X : 18.5pF - 22.5pF	100X : 18.5pF - 22.5pF	100X : 18.5pF - 22.5pF	100X : 18.5pF - 22.5pF
	Max Input Voltage	2KV DC + AC Vpp	2KV DC + AC Vpp	2KV DC + AC Vpp	2KV DC + AC Vpp

	Model No	P5101	P5102	P5104
	Attenuation Ratio	1000X	1000X	1000X
	Bandwidth	1000X : DC-20MHz	1000X : DC-20MHz	1000X : DC-20MHz
	Input R	100MΩ	100MΩ	100MΩ
	Input C	10X : 0.5pF - 1.5pF	10X : 0.5pF - 1.5pF	10X : 0.5pF - 1.5pF
	Max Input Voltage	10KV DC + AC Vpp	20KV DC + AC Vpp	40KV DC + AC Vpp

	Model No	P2300	P2500
	Attenuation Ratio	100X	100X
	Bandwidth	100X : DC-300MHz	100X : DC-500MHz
	Input R	100MΩ	100MΩ
	Input C	100X : 10pF - 20pF	100X : 10pF - 20pF
	Max Input Voltage	5KV DC + AC Vpp	5KV DC + AC Vpp

Certificates



MSO CE



HDS-N CE



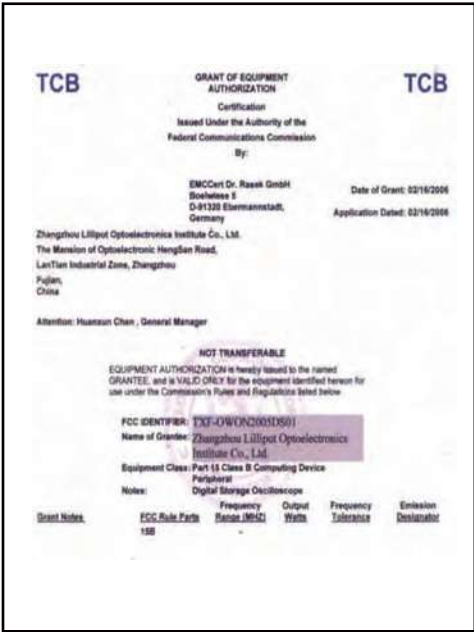
SDS CE



ISO9001



HDS CE



FCC