SmartDS Series

Main Features:

1. 60MHz~300MHz with dual Channels;
2. 500MS/s~3GS/s sample rate;
3. 10M record length for each channel;
4. Large 8-inch 800x600 pixels display;
5. Autoscale function ;
6. Pass/Fail function;
7. Smart design with easy workplace;
8. Battery (Optional);
9. Multiple interface: USB; VGA; LAN

NEW!

10M Deep Memory

MSO Series

Main Features:

1. 2 in 1 (DSO + Logic analyzer)
2. 8 inch LCD color display
3. 16 channels logic analyzer
4. 20 automatic measurements
5. 2M record length
6. Autoscale
7. FFT
8. Battery (Optional)

owon®
Meet your best need

Xiamen Lilliput Technology Co.,Ltd.
CATALOGUE
Oscilloscope

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ABOUT OWON

Lilliput devoted in electronics industry since 1990.

"Owon" born in 2006 with the mission of "Meet your best needs" .

We are keep seeking all ways to improve quality and expect to meet various needs for different users.

Innovation is the soul of engineering design. Till today we have launched 5 series of products for matching users expectations which are handheld digital storage oscilloscope (2 series), bench digital storage oscilloscope, LA-mixed digital storage oscilloscope and creative SDS bench digital storage oscilloscope. The stable advanced function of handheld series keep us outstanding in all China manufacturers. SDS amazing design will bring a new experiences for users.

Multiple communication always the engine to power our growth. We are never stop devoting more to your Test and Measurement world.

TULA - Lilliput đã cống hiến trong ngành công nghiệp điện tử từ năm 1990.

"Owon" ra đời năm 2006 với mong muốn "Đáp ứng tốt nhất nhu cầu của bạn".

Chúng tôi đang luôn tìm tất cả các cách thức để cải thiện chất lượng và hy vọng đáp ứng nhu cầu đa dạng của những người dùng khác nhau.

Sự sáng tạo là linh hồn của thiết kế kỹ thuật. Tới nay, chúng tôi đã cho ra 05 dòng sản phẩm phù hợp với mong đợi của người dùng là Máy hiện sóng công nghệ lưu trữ số kiểu cầm tay (02 dòng/ series), Máy hiện sóng công nghệ lưu trữ số kiểu để bàn, Máy hiện sóng công nghệ lưu trữ số tích hợp LA (phân tích logic) và dòng Máy hiện sóng công nghệ lưu trữ số kiểu để bàn tân tiến SDS. Chức năng cao cấp ổn định của dòng máy cầm tay đã duy trì vị thế dẫn đầu của chúng tôi với tất cả các nhà sản xuất Trung Quốc. Thiết kế tuyệt vời của SDS sẽ mang tới những trải nghiệm mới cho người dùng.

Đa truyền thông luôn là động lực để tăng cường sự phát triển của chúng tôi. Chúng tôi sẽ không ngừng cống hiến thêm cho thế giới Đo lường và Kiểm tra.

Milestone In Development:

Mar 2006	HDS1022M—the first high quality 2 in 1 handheld DSO made in China with high resolution color LCD display
Sep 2006	PDS5022S—Big 7.8 inch color LCD display bench DSO, the ideal for education
Nov 2006	HDS2062M—60M handheld DSO follow up the success of HDS1022M
Jun 2007	HDS-N series—the upgrade version to original HDS series
Nov 2007	MSO5022S—Mixed LA-supported DSO
Apr 2008	PDS7102T—100M bench DSO
Dec 2008	OWON are named as "the most competitive price with high quality products" by "WIRELESS" magazine in China
Jan 2009	MSO7102T—Mixed LA support DSO with 100M and 1G real time sample rate
Apr 2009	Innovate independent for Auto measurement and Max. 20 measurements to apply for all items
Oct 2009	HDS3102M-N—first 100M handheld DSO made in China
Oct 2009	HDS1021M—1 channel 20M low cost handheld DSO for niche market
Jan 2010	MSO8102T—Mixed LA support DSO with 2GS/s real time sampling rate
Feb 2010	MSO8202T—200M Mixed LA support DSO
May 2010	PDS8102T—100MHz DSO with 1GS/s sample rate, 2M record length
May 2010	PDS8202T—200MHz DSO with 2GS/s sample rate, 2M record length
Oct 2010	SDS series in Ultrathin design with 10M record length

SmartDS Series

Deep Memory Digital Storage Oscilloscope

NEW!

10M Deep Memory

Main Features:

1. 60MHz~300MHz with dual channels;
2. 500MS/s~3GS/s sample rate;
3. 10M record length for each channel;
4. Large 8-inch 800x600 pixels display;
5. Autoscale function ;
6. Pass/Fail function;
7. Smart design with easy workplace;
8. Battery (Optional);
9. Multiple interface: USB; VGA; LAN

Dimension: 340mm(L)×155mm(H)×70mm(W)
Weight: 1.8kg (without battery)

FC CE

Performance characteristics

Model	SDS6062	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	100MHz	100MHz	200MHz	300MHz	
Sample rate(Real time)	500MS/s	1GS/s	2GS/s		2.5GS/s	3GS/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 (at input, typical)	≤5.8ns	≤3.5ns		≤1.7ns	≤1.17ns	
Channels	2 + 1 (External)					
Display	8" color LCD, TFT display , 800×600 pixels, 65535 colors					
Input impedance	1MΩ±2%, in parallel with 10pF±5pF					
channels Isolation	50Hz: 100 : 1, 10MHz: 40 : 1					
Max. input voltage	400V (PK-PK) (DC + AC PK-PK)					
DC gain accuracy	±3%					
DC accuracy(Average)	Average≥16:±(3% reading+0.05div) for ΔV					
Probe attenuation factor	1X,10X,100X,1000X					
LF respond(AC, -3dB)	≥5Hz(at input, AC coupling, -3dB)					
Record length	Max.10M points for each channel					
Sampling rate/relay time accuracy	±100ppm					
Interpolation	(sin x)/x					

Performance characteristics

Model	SDS6062	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	100MHz		200MHz	300MHz	
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 , Ground					
Vertical resolution (A/D)	8 bits resolution (2 Channels simultaneously)					
Vertical sensitivity	2mV/div ~ 10V/div(at input)					
Trigger type	Edge, Pulse, Video, Slope, Alternate					
Trigger mode	Auto, Normal, Single					
Trigger level	±6 divisions from screen center					
Acquisition modes	Sample, Peak Detect and Average					
Line/field frequency(Video)	Support standard NTSC, PAL and SECAM broadcast systems					
Cursor measurement	ΔV and ΔT between cursors					
Automatic measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A→B ,Delay A→B					
Waveform Math	+, -, ×, ÷, FFT					
Waveform storage	15 waveforms					
Lissajou's figure	Bandwidth	Full bandwidth				
	Phase difference	±3 degrees				
Communication interface	USB, Support USB Flash Disk Storage, Pass/Fail			USB2.0,VGA ,USB flash disk storage,LAN,Pass/Fail		
Cymometer	Available					
Power supply	100V-240V AC, 50/60Hz, CATII					
Power consumption	<18W					
Fuse	1A, T class, 250V					

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Application

Electronic circuit debugging
Education and training
Circuit testing
Automobile maintenance and testing
Design and manufacture

Accessories

The receipt of accessories should be taken as final.

Probe   Power cord   Probe adjust   USB   CD-Rom   Battery(optional)   Manual

HDS-N Series

New Handheld Series Digital Storage Oscilloscope

Creative design of Silica gel key offer easy touching and friendly operation
Creative design of separate shortcut key to simplify operation steps

Main Features:

1. 2 in 1(DSO+Multimeter)
2. Autoscale
3. FFT
4. 20 automatic measurements
5. Bandwidth: 20MHz-100MHz
6. Support USB for data transmission to PC
7. Replaceable li-ion battery back up (6 hours)
8. USB flash disk storage
9. Waveform record & replay(HDS2062M-N, HDS3102M-N)

Dimension: 180mm(L)×115mm(H)×40mm(W)
Weight: 645g

CE

Performance characteristics

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N HOT!
Bandwidth	20MHz	60MHz	100MHz
Sample rate(Real time)	100MS/s	250MS/s	500MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5	5ns/div~100s/div,step by 1~2~5	
Rise time (at input, typical)	≤17.5ns	≤5.8ns	≤3.5ns
Display	3.7 inch color display with TFT panel(640×480 pixels, 65535 colors)		
Channels	Dual		
Input impedance	1MΩ±2%, in parallel with 20pF±5pF	1MΩ±2%, in parallel with 15pF±5pF	
Probe attenuation factor	1X, 10X, 100X, 1000X		
Max. input voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)		
Record length	Max.6000 points on each channel		
Interpolation	(sin x)/x		
Input coupling	DC, AC, GND		
Acquisition modes	Sample, Peak Detect and Average		
Vertical resolution (A/D)	8 bit (2 channels simultaneously)		
Vertical sensitivity	5mV/div~5V/div(at input)		
DC gain accuracy	±3%		

Performance characteristics

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N HOT!
DC accuracy(Average)	Average>16:±(5% reading+0.05div) for ΔV		
Trigger type	Edge, Video, Alternate		
Trigger mode	Auto, Normal, Single		
Trigger level	±6 divisions from screen center		
Automatic measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A→B↑,Delay A→B↓		
Waveform math	+, -, ×, ÷, FFT		
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	20MHz	60MHz	100MHz
	Phase difference	±3 degrees		
Communication interface	USB		
Cymometer	Unavailable	Available	
Power supply	100V-240V AC, 50/60Hz		
Li-ion battery	7.4V, 6 hours operation		

Multimeter Specifications

Full scale reading	3¾ digits (Max.4000-count)	Diode	0V-1.5V
Input Impedance	10MΩ	On/Off measurement	<50(±30) beeping
Capacitance	51.2nF-100uF:±(3%±3 digit)		
Voltage	VDC:400mV,4V, 400V: ±(1±1digit) Max.input:DC 1000V, VAC:4V,40V,400V:±(1±3digit) Frequency:40Hz-400Hz, Max.input:AC 750V(virtual value)		
Current	DCA:40mA, 400mA:±(1.5%±1 digit) 10A:±(3%±3digit) DAA:40mA±(1.5%±3digit) 400mA:±(2±1digit) 10A:±(3%±3digit)		
Impedance	400Ω:±(1%±3digit), 40Ω		

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Application

Electronic circuit debugging   Circuit testing   Design and manufacture
Education and training   Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

Probe   Multimeter lead   Adapter   USB   5V 1KHz output   CD-Rom   Small capacitance module   Metal case

Probe adjust   Manual   Soft bag(optional)

HDS Series

Handheld Series Digital Storage Oscilloscope

Main Features:

1. 2 in 1(DSO+Multimeter)
2. Autoscale
3. 20 automatic measurements
4. Bandwidth: 20MHz-60MHz
5. Support USB for data transmission to PC
6. Replaceable li-ion battery back up (6 hours)

Dimension: 180mm(L)×115mm(H)×40mm(W)
Weight: 645g

CE

Performance characteristics

Model	HDS1021M HOT!	HDS1022M	HDS2062M
Bandwidth	20MHz	20MHz	60MHz
Sample rate(Real time)	100MS/s	100MS/s	250MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5		5ns/div~100s/div,step by 1~2~5
Rise time (at input, typical)	≤17.5ns		≤5.8ns
Channels	Single	Dual	
Display	3.5"color display (320×240 pixels)	3.7"color display (640×480 pixels)	3.78"color display (320×240 pixels)
Input impedance	1MΩ±2%, in parallel with 18pF±5pF	1MΩ±2%, in parallel with 20pF±5pF	
Probe attenuation factor	1X,10X,100X,1000X		
Max. input voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)		
Record length	Max.6000 points on each channel		
Interpolation	(sin x)/x		
Input coupling	DC, AC, GND	DC, AC	
Acquisition modes	Sample, Peak Detect and Average		
Vertical resolution (A/D)	8 bit		
Vertical sensitivity	5mV/div~5V/div(at input)		
DC gain accuracy	±3%	±5%	

Performance characteristics

Model	HDS1021M HOT!	HDS1022M	HDS2062M
DC accuracy(Average)	Average>16:±(3% reading+0.05div) for ΔV	Average>16:±(5% reading+0.05div) for ΔV	
Trigger type	Edge, Video		
Trigger mode	Auto, Normal, Single		
Trigger level	±6 divisions from screen center		
Automatic measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A→B⌐,Delay A→B⌐		
Waveform math	Unavailable	+, -, ×, ÷,	
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	Unavailable	20MHz	60MHz
	Phase difference	Unavailable	±3 degrees	
Communication interface	USB		
Cymometer	Available	Unavailable	
Power supply	100V-240V AC, 50/60Hz		
Li-ion battery	7.4V, 6 hours operation		

Multimeter Specifications

Full scale reading	$3\frac{3}{4}$ digits (Max.4000-count)	Diode	0V-1.5V
Input Impedance	10MΩ	On/Off measurement	<50(±30) beeping
Capacitance	51.2nF-100uF:±(3%±3 digit)		
Voltage	VDC:400mV,4V, 400V: ±(1±1digit) Max.input:DC 1000V, VAC:4V,40V,400V:±(1±3digit) Frequency:40Hz-400Hz, Max:input:AC 750V(virtual value)		
Current	DCA:40mA, 400mA:±(1.5%±1 digit) 20A:±(3%±3digit) DAA:40mA(1.5%±3digit) 400mA:±(2±1digit) 20A:±(3%±3digit)		
Impedance	400Ω:±(1%±3digit), 40Ω		

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Application

Electronic circuit debugging   Circuit testing   Design and manufacture

Education and training   Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

Probe   Multimeter lead   Adapter   USB   Current extend module   Small capacitance module   Soft bag

CD-Rom   Manual   Probe adjust   Metal case(optional)

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+ Meet your best need

//MSO Series
Mixed LA-Oscilloscope

Main Features:
1. 2 in 1 (DSO+ LA)
2. 8 inch LCD color display
3. Support USB for data transmission to PC
4. USB flash disk storage
5. 20 automatic measurements

Digital Storage Oscilloscope:
1. 25MHz--200MHz bandwidth
2. Max up to 2GS/s sample rate
3. Autoscale
4. FFT

Logic Analyer:
1. 33MHz--200MHz bandwidth
2. Max up to 1GS/s sample rate
3. 16 input channels

Dimension: 370mm(L)×180mm(H)×120mm(W)
Weight: 2.2kg

CE

Performance characteristics

Model	MSO5022S	MSO7102TD	MSO8102T	MSO8202T
Bandwidth	25MHz	100MHz	100MHz	200MHz
Sample rate (Real time)	100MS/s	1GS/s (500MS/s for dual channels)	2GS/s(1GS/s for dual channels)	
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5-5	2ns/div~100s/div,step by 1-2-5	1ns/div-100s/div,step by 1-2-5	
Rise time (at input, typical)	≤14ns	≤3.5ns	≤1.7ns	
Display	7.8" color LCD, STN display	8.0" color LCD, TFT screen, 640×480 pixels, 65535 colors		
Channels	Dual channels + external trigger			
Input impedance	1MΩ±2%, in parallel with 20pF±5pF	1MΩ±2%, in parallel with 15pF±5pF		
Max. input voltage	300V (DC + AC PK-PK)	400V (DC + AC PK-PK)		
Record length	Max.6000 points on each channel	Max.2M points		
Probe attenuation factor	1X, 10X, 100X, 1000X			
Interpolation	(sin x)/x			
Vertical resolution (A/D)	8 bit (2 channels simultaneously)			
Vertical sensitivity	5mV/div~5V/div(at input)	2mV/div~10V/div(at input)		
DC gain accuracy	±3%			
DC accuracy(Average)	Average>16:±(3% reading+0.05div) for ΔV			
Acquisition modes	Sample, Peak Detect and Average			

Performance characteristics

Model	MSO5022S	MSO7102TD	MSO8102T	MSO8202T
Trigger type	Edge, Video, Alternate	Edge, Video, Alternate, Pulse, Slope		
Cursor measurement	ΔV and ΔT between cursors			
Automatic measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A⌐B⌐,Delay A⌐B⌐			
Waveform Math	+, -, ×, ÷, FFT			
Waveform storage	4 waveforms			
Trigger mode	Auto, Normal, Single			
Lissajou's figure — Bandwidth	25MHz	100MHz	100MHz	200MHz
Lissajou's figure — Phase difference	±3 degrees			
Communication interface	USB, Support USB Flash Disk Storage			
Cymometer	Unavailable	Available		
Power supply	100V-240V ACRMS, 50/60Hz, CATII			
Battery	7.4V 8000mA			
Fuse	1A, T grade , 250V			

Logic analyzer characteristics

Model	MSO5022S	MSO7102TD	MSO8102T	MSO8202T
Sample rate (real time)	20S/s-100MS/s	20S/s-1GS/s		
Bandwidth	33MHz	200MHz		
Threshold voltage	±10V(4 settings)	±6V(4 settings)		
Input signal range	±15V	±30V		
Channels	16			
Record length	4M/channel			
Input impedance	1MΩ±2%	660kΩ±5%//15±5pF		
Trigger position setting	Pre-trigger, mid-trigger, re-trigger			
Trigger mode	Edge trigger, Bus trigger, Pattern trigger,Sequential queue trigger, Data width trigger,Distributed queue trigger			
Data System	Binary system, Decimal system, Hex			

Data search	Available
Digital filter	0,1,2 optional
Storage setting	10 settings
USB flash disk storage	Available

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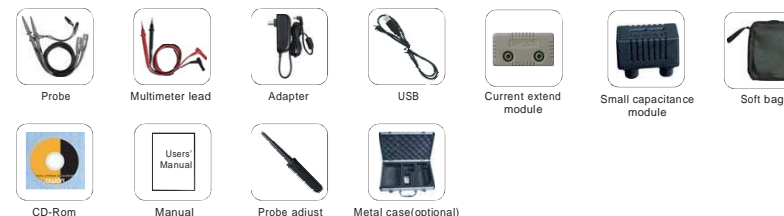
Application

| Design and Debug | Circuit function test |
| Identified signals logic information | Education & Training | Mixed signal circuit test |

Accessories
The receipt of accessories should be taken as final.

Probe   Power cord   USB   Logic analyzer module   Battery(optional)   Probe adjust   CD-Rom   Manual

PDS8102T/PDS8202T

With Logic analyzer interface stand by in your unit!
Support your DSO with LA function to become a MSO is never magic!

Upgrade
PDS-TO-MSO
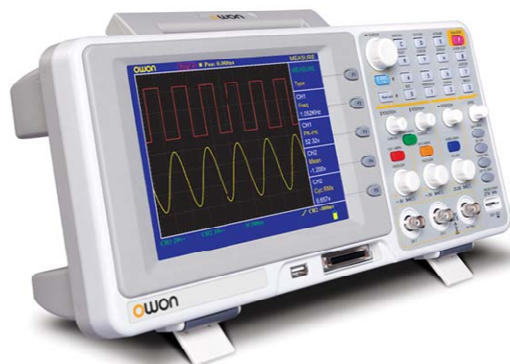
Main Features:

1. Autoscale
2. FFT
3. Bandwidth: 100MHz-200MHz
4. Sample rate : Max up to 2GS/s
5. 8 inch LCD color display
6. Support USB for data transmission to PC
7. 20 automatic measurements

Dimension: 370mm(L)×180mm(H)×120mm(W)
Weight: 2.2kg

CE

Performance characteristics

Model	PDS8102T	PDS8202T
Bandwidth	100MHz	200MHz
Sample rate(Real time)	1GS/s(500MS/s for dual channels)	2GS/s(1GS/s for dual channels)
Horizontal Scale(S/div)	2ns/div--100s/div step by 1-2-5	1ns/div--100s/div step by 1-2-5
Rise time (at input, typical)	≤3.5ns	≤1.7ns
Channels	Dual channels+external trigger	
Display	8" color LCD, TFT display , 640*480 pixels, 65535 colors	
Input impedance	1MΩ±2%, in parallel with 15pF±5pF	
Isolation between channels	50Hz (100:1), 10MHz (40:1)	
Max. input voltage	400V(DC + AC PK-PK)	
DC gain accuracy	±3%	
DC accuracy(Average)	Average≥16:±(3% reading+0.05div) for ΔV	
Probe attenuation factor	1X, 10X, 100X, 1000X	
LF respond(AC, -3dB)	≥5Hz(at input)	
Record length	Max. 2M points on each channel	
Sampling rate/relay time accuracy	±100ppm	
Interpolation	(sin x)/x	

Performance characteristics

Model	PDS8102T		PDS8202T
Bandwidth	100MHz		200MHz
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, GND		
Displacement	±50V(500mV-5V); ±2V(5mV-200mV)		
Vertical resolution (A/D)	8 bit (2 channels simultaneously)		
Vertical sensitivity	2mV/div~10V/div(at input)		
Trigger type	Edge, Video, Alternate, Pulse, Slope		
Trigger mode	Auto, Normal, Single		
Trigger level	±6 divisions from screen center		
Acquisition modes	Sample, Peak Detect and Average		
Line/field frequency(Video)	Support NTSC, PAL and SECAM		
Cursor measurement	ΔV and ΔT between cursors		
Automatic measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A→B⌠,Delay A→B⌡		
Waveform Math	+, -, ×, ÷, FFT		
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	100MHz	200MHz
	Phase difference	±3 degrees	
Communication interface	USB, Support USB Flash Disk Storage		
Cymometer	Available		
Power supply	100V-240V AC, 50/60Hz, CATII		
Power consumption	≤15W		
Fuse	1A, T class, 250V		

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Application

Electronic circuit debugging   Circuit testing   Design and manufacture
Education and training   Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

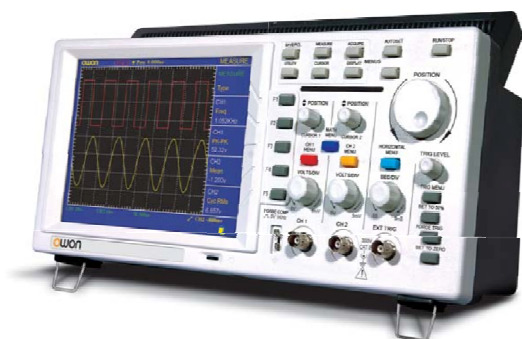Probe   Power cord   Probe adjust   USB   CD-Rom   Users' Manual   Logic analyzer module (Optional, only for upgrade)   Battery(optional)   Manual (Optional, only for upgrade)

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+ Meet your best need

PDS Series

Portable Digital Storage Oscilloscope

Main Features:

1. Autoscale
2. FFT
3. Bandwidth: 25MHz-100MHz
4. Sample rate : Max up to 500MS/s
5. 8 inch LCD color display
6. Support USB for data transmission to PC
7. 20 automatic measurements

Dimension: 350mm(L)×157mm(H)×103mm(W)
Weight: 1.7kg

CE

Performance characteristics

Model	PDS5022S	PDS6062S	PDS6062T	PDS7102T
Bandwidth	25MHz	60MHz	60MHz	100MHz
Sample rate(Real time)	100MS/s	250MS/s	250MS/s	500MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5	5ns/div~100s/div,step by 1~2~5		
Rise time (at input, typical)	≤14ns	≤5.8ns		≤3.5ns
Channels	Dual channels+external trigger			
Display	7.5 inch color LCD, STN screen, 640×480 pixels		8.0 inch color LCD, TFT screen, 640×480 pixels	
Input impedance	1MΩ±2%, in parallel with 20pF±5pF		1MΩ±2%, in parallel with 15pF±5pF	
Isolation between channels	50Hz(100:1), 10MHz(25:1)		50Hz(100:1), 10MHz(40:1)	
Max. input voltage	300V(DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)		400V(DC + AC PK-PK)	
DC gain accuracy	±5%		±3%	
DC accuracy(Average)	Average≥16:±(5% reading+0.05div) for ΔV		Average≥16:±(3% reading+0.05div) for ΔV	
Probe attenuation factor	1X, 10X, 100X, 1000X			
LF respond(AC, -3dB)	≥5Hz(at input)			
Record length	5K points on each channel	6K points on each channel		
Sampling rate/relay time accuracy	±100ppm			
Interpolation	(sin x)/x			

Performance characteristics

Model		PDS5022S	PDS6062S	PDS6062T	PDS7102T
Bandwidth		25MHz	60MHz	60MHz	100MHz
Sample rate(Real time)		100MS/s	250MS/s	250MS/s	500MS/s
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			DC, AC, GND
Displacement		±50V(500mV-5V), ±2V(5mV-200mV)			
Vertical resolution (A/D)		8 bit (2 channels simultaneously)			
Vertical sensitivity		5mV/div~5V/div(at input)			
Trigger type		Edge, Video			Edge, Video, Alternate
Trigger mode		Auto, Normal, Single			
Trigger level		±6 divisions from screen center			
Acquisition modes		Sample, Peak Detect and Average			
Line/field frequency(Video)		Support NTSC, PAL and SECAM			
Cursor measurement		ΔV and ΔT between cursors			
Automatic measurement		Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+Width,-Width,+Duty,-Duty,Delay A→B⌠,Delay A→B⌐			
Waveform Math		+, -, FFT			
Waveform storage		4 waveforms			
Lissajou's figure	Bandwidth	25MHz	60MHz	60MHz	100MHz
	Phase difference	±3 degrees			
Communication interface		USB			
Cymometer		Unavailable			Available
Power supply		100V-240V AC, 50/60Hz, CATII			
Power consumption		≤15W			
Fuse		1A, T class, 250V			

OWON continues to improve products and reserves the rights to change specifications without advance notice. For latest ones,please refer to our website.

Application

Electronic circuit debugging   Circuit testing   Design and manufacture
Education and training   Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

Probe   Power cord   Probe adjust   USB   CD-Rom   Battery(optional)   Manual