OSCILLOSCOPE

DIGITAL STORAGE

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DS-1065 / DS-1100 / DS-1200

MODEL	BANDWIDTH	SAMPLING RATE
DS-1065	60MHz	500MS/s
DS-1100	100MHz	1GSS/s
DS-1200	200MHz	1GSS/s

Features

- 60MHz/100MHz/200MHz bandwidth
- 500MS/s to 1GS/s real-time sample rate
- 50GS/s sample rate for repetitive waveforms
- 1M Memory
- 2mV/div to 50V/div Vertical Sensitivity
- High resolution color LCD display
- USB storage, RS232C , optional J45 interface
- 4000 point record length for each channel
- Multi-waveforms math, FFT Function
- Built-in delay sweep function
- Automatic Multi-waveform Measurement
- Cursor & Track measurement
- Waveform Record & Recall
- Trigger Mode for Edge, Video, Pulse Width, Slope & Alternate
- Pass & Failure for ordinary setting and waveform setting
- Calibration Signal with optional frequency of 1KHz,10KHz &100KHz
- 10 groups of waveform storage, CSV storage, 10 groups of setting and position storage

Technical Specification

Model	DS-1065	DS-1100	DS-1200
Vertical system			
Bandwidth	60MHz	100MHz	200MHz
Channel	CH1, CH2		
Vertical Resolution	8 bit		
Vertical Sensitivity	2mV/div -50V/div, 1-2-5 14 step		
Simulation bandwidth	-3dB		
Rising time	≤5.8ns	≤3.5ns	≤1.8ns
Input impedance	1MΩ ±2%, 20pF±5		
Max safe input voltage	400V(DC+AC peak) / Frequency≤400Hz (when input impedance is 1MΩ)		

Horizontal system			
Mode	CH1, CH2, CH1±CH2, CH1×CH2, CH1/CH2, FFT		
Sampling Rate	500MS/s	1GS/s	1GS/s
Equivalent sampling rate	50GS/s	50GS/s	50GS/s
Waveform interpolation	Sin(x)/x		
Record length	≥4kB/CH, expandable to 256MB or 512MB		
Horizontal working mode	Primary sweep, primary sweep + delay expansion sweep and X-Y / 1-2-5		
Timebase range	50s/div~10ns/div	50s/div~5ns/div	50s/div~1ns/div
Timebase accuracy	±100ppm		
X-Y	X (CH1) frequency bandwidth : DC ~ full bandwidth (-3dB)		
	Phase potential difference ：≤3° when 5MHz		
Trigger			
Trigger source	CH1, CH2, EXT, city electricity		
Trigger sensitivity	inner：≥1div (frequency upper limit is 40MHz)		
	≥2div (frequency is more than 40MHz)		
	≥2div, △V , △T, 1/△T		
	out ：≥100mVp-p frequency upper limit is 40MHz		
	≥200mVp-p frequency is more than 40MHz		
	≥200mVp-p, TV-V, TV-H video trigger		
Auto trigger range	100Hz~100MHz square signal		
Trigger level range	Int. trigger：±4div / Ext. trigger：±1.6V		
Trigger mode	Edge trigger : Rise along, drop along		
	Impulse trigger : More than, equal to and less than setting pulse width.		
	Video trigger : TV-V, TV-H		
	Slope trigger ：more than, equal to and less than setting time		
Cursors			
Measurement	△V , △T, 1/△T		
Auto measure	Voltage parameter		
	: Max, Min, peak-peak value, top value,		
	bottom value, amplitude value,		
	root-mean-square value, average value, overshot, pre-shot, damp.		
	Time parameter		
	: cycle, frequency, rising time, fall time,		
	positive pulse width, negative pulse width,		
	positive ratio, negative ratio, delay 1-2		
Display			
Display	5.7 inch color LCD display		
Display screen	320pixel(horizontal)× 234pixel (vertical)		
Display type	dot, vector		
Display mode	Normal, Flat, Average, Peak value, Afterglow		
General			
Output interface	USB, RS232, J45 Ethernet interface(Optional)		
Storage	Setting / Waveform storage : 10 groups		
Power supply	AC 100V~240V ±10% / 45Hz~440H / about 25W		
Temperature	Working: 0℃~+40℃ / Storage : -40℃~+60℃		
Humidity	Working : 40℃ / (20~90)%RH / Storage : 50℃ / 90%RH, 24h		
Size/ Weight	300mm×150mm×130mm / 2.5Kg (net weight)		