



Oscilloscope with Arbitrary Waveform Generator

OOSC5000 Series

- 4 channel oscilloscope.
- 250, 200, 100 MHz bandwidths, 1 GSa/s sampling rate.
- Powerful trigger function: Video, edge, pulse width, slope, overtime, alternate trigger.
- 25 MHz arbitrary waveform output (sine wave up to 75 MHz).
- 7-inch 64 K color LCD display.
- 32 kinds of automatic measurements with FFT function.

Model		OOSC5250	OOSC5200	OOSC5100
Horizontal	Bandwidth	250 MHz	200 MHz	100 MHz
	Sampling Rate Range	1 GSa/s		
	Equivalent Sample Rate	25 GSa/s		
	Memory Depth (Sample Points)	40 k		
	SEC/DIV Range	2 ns/div-80 s/div		
	Delay Time Accuracy	±50 ppm in any >1 ms time intervals		
	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval+100 ppm×readings+ 0.6 ns) > 16 times above average, ± (1 sampling interval + 100 ppm × readings + 0.4 ns) Sampling interval = SEC/DIV÷200		
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously		
	VOLTS/DIV Range	2 mV/div ~ 10 V/div at input BNC		
	Position Range	±50 V (5 V/div): ±40 V (2 V/div ~ 500 mV/div) ±2 V (200 mV/div ~ 50 mV/div); ±400 mv (20 mV/div ~ 2 mV/div)		
	Rise Time at BNC	1.4 ns	1.7 ns	3.5 ns
	DC Gain Accuracy	±4% for sample or average acquisition mode, 5 mV/div to 2 mV/div ±3% for sample or average acquisition mode, 5 V/div to 10 mV/div		
Trigger	Trigger Sensitivity (edge Trigger Type)	DC (internal): 1div from DC to 10 MHz, 1.5div from 10 MHz to 100 MHz 2 div from 100 MHz to 200 MHz		
		DC (EXT): 200 mV from DC to 100 MHz, 350 mV from 100 MHz to 200 MHz		
		DC (EXT/5): 1 V from DC to 100 MHz, 1.75 V from 100 MHz to 200 MHz		
		AC: Attenuates signals below 10 Hz		
		HF Reject: Attenuates signals when above 80 kHz		
		LF Reject: The same as DC coupling limit when frequency above 150 kHz Attenuates signals when below 150 kHz		
	Trigger Level Range	CH1, CH2, CH3, CH4: ±8 divisions from center of screen; EXT: ±1.2 V; EXT/5: ±6 V		
	Typical accuracy for signals	CH1, CH2, CH3, CH4: ± (0.2div × V/div) (within ±4 divisions from center of screen)		
	Having Rise and Fall Time ³ 20 Ns)	EXT: ± (6% of setting+40 mV); EXT/5: ± (6% of setting+200 mV)		
	Holdoff Range	100 ns - 10 s		
Set Trigger Level to 50%	For the input signals ≥50 Hz			
Trigger Type	Video, edge, pulse width, slope, overtime , alternate trigger			
Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
Input	Input Coupling	DC, AC or GND		
	Input Impedance, DC coupled	1 mΩ±2% for 20 pF±3 pF		
	Probe Attenuation	1x, 10x		
	Supported Probe Attenuation Factor	1x, 10x, 100x, 1000x		
	Max. Input Voltage	CAT I and CAT II: Installation type: 300 VRMS (10×); CAT III: 150 VRMS (1×)		
Measurement	Cursors	The difference between voltage cursors ΔV		
		The difference between time cursors ΔT		
		Reciprocal of ΔT in Hz (1/ΔT)		
Automatic	Frequency, period, mean, pk-pk, Cyc RMS, min, max, rise time, fall time, +pulse width, -pulse width, delay 1-2 rise, delay 1-2 fall, +duty, -duty, Vbase, Vtop, Vmid, Vamp, overshoot, preshoot, period mean, period RMS, FOVshoot, RPRESshoot, bwidth, FRF, FFR, LRR, LRF, LFF			
Arbitrary Waveform Generator	Waveform Frequency	DC-25 MHz (sine wave up to 75 M)		
	Waveform Depth	2 KSa		
	Frequency Resolution	0.1%		
	Vertical Resolution	12 bit		
	Frequency Stability	<30 ppm		
	DAC Clock	2K ~ 200 MHz Adjustable		
	Output Impedance	50 Ω		
Other	Display	7 inch 64 k color LCD; 800×400 pixels; adjustable (16 gears) with the progress bar		
	Voltage	100-120 VAC RMS (±10%), 4 5 Hz to 440 Hz, CAT II: 120-240 V AC RMS (±10%), 4 5 Hz to 6 6 Hz, CAT II		
	Power	<30 W		
	Fuse	2 A, T rating, 250 V		
	Size & Weight	313 mm × 108 mm × 142 mm (L x W x H); 2.08 kg (without packing)		

Accessories:

OOSC5000-A1	Power Cord
OOSC5000-A2	Oscilloscope Probes (x2)
OOSC5000-A3	CD + User Guide