



## Oscilloscope

### OOSC2000 Series

- 2 channel oscilloscope; 40 kb record length.
- 200, 100, 70 MHz bandwidths; 1 GSa/s sampling rate.
- 7-inch 64 K color LCD display; resolution 800 × 480.
- 32 kinds of automatic measurements, with FFT function.
- Powerful trigger function: video, edge, pulse width, slope, overtime, alternate trigger.

Model		OOSC2200	OOSC2100	OOSC2070
Horizontal	Bandwidth	200 MHz	100 MHz	70 MHz
	Sampling Rate Range	1 GSa/s		
	Equivalent Sampling Rate	25 GSa/s		
	Memory Depth (Sample Points)	40 K		
	SEC/DIV Range	2 ns/div ~ 80 s/div	4 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	1.7 ns	3.5 ns	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, 1.5 div 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: ±8 divisions from center of screen; EXT: ±1.2 V; EXT/5: ±6 V		
	Typical accuracy for signals	CH1, CH2: ± (0.2div ×V/div) (within±4divisions from center of screen)		
Having Rise and Fall Time ≥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% (Typical)	For the input signals ≥50 Hz			
Trigger Type	Video, edge, pulse width, slope, over time, alternate trigger.			
Acquisition	Normal, Peak Detected	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 (10x); CAT III: 150 VRMS (1x)		
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, minimum, maximum, rise time		
		Fall Time, +pluse width, -pluse width, delay 1-2 rise, delay1-2 fall, +duty, -duty		
Vbase, Vtop, Vmid, Vamp, overshoot, preshoot, period mean, period RMS, FOVshoot, RPRESshoot, Bwidth, FRF, FFR, LRR, LRF, LFR, LFF				
Other	Display	7-inch 64 K color LCD: 800 × 480 pixels; Adjustable (16 gears) with the progress bar		
	Voltage	100-120 VACRMS (±10%), 4 5 Hz to 440 Hz, CAT II 120-240 VACRMS (±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:

OOSC2000-A1	Power Cord
OOSC2000-A2	Oscilloscope Probes (x2)
OOSC2000-A3	CD + User Guide