Oscilloscope





Features:

- 4 in 1 multifunctional testing instrument: Oscilloscope / Arb. Waveform Generator / FFT Spectrum Analysis / Frequency Counter
- 16M memory depth oscilloscope
- 200MSa/s DDS arb. waveform generator

Specifications:

	Model	72-10179	
	Sample Mode	Real-Time Sample	
Acquisition	Sample Rate	200MSPS	
	Average	N acquisitions, all channels simultaneously, N is selectable from 2, 4, 8, 16, 64, and 128	
	Input Coupling	DC, AC, GND	
	Input Impedance	Resistance: 1MΩ; Capacitance: 25pF	
Input	PP-80,PP-150,PP-200 Probe Attenuation	10X	
	Support Current Measure	1X, 10X	
	Maximum Input Voltage	400Vpk (DC + peak)	
	Scanning Speed Range(Sec/Div)	5ns/div ~ 1,000s/div(1-2-5 sequences)	
	Sample Rate and Delay Time Accuracy	±50ppm(any interval ≥1ms)	
Horizontal	Wave form Interpolation	Step, Linear, Sin(x)/x	
Horizontai	Memory Depth(Sample Points)	10K ~ 16M for each channel; 16M: 5ns/div-1000s/div	
	Analog Bandwidth	60MHz (-3dB)	
	A/D converter	8 bit resolution	
Vertical	Vertical Scale(Volt/div) Range	10mV ~ 5V/div @ x1 probe(1,2,5 sequence);	
		100mV ~ 50V/div @ x10 probe	
	Position Range	±4division	
	Selectable Analog Bandwidth Limit(typical)	20MHz	
	Lower Frequency Response(-3dB)	≤ 10Hz(at input BNC)	
	Rise Time at BNC(typical)	≤5.8ns	
	DC Gain Accuracy	±3%	



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	Trigger Source		CH1,CH2, EXT	
	Trigger Mode		Auto, Normal and Single	
	Trigger Type		Edge, Pulse, Video, Alternative	
	Trigger Sensitivity		0.02 div increments	
	Trigger Level Range		±4V	
	Trigger Level Accuracy		±4 division	
Trigger	Edge Trigger Slope		Rising, Falling	
	Pulse Width Trigger		Trigger Condition: Trigger when <, >, =, or ≠; Positive pulse or Negative pulse	
			Pulse Width Range: Selectable from 20ns to 10s	
	Video Trigger Type (Signal Formats and Field Rates)		Supports NTSC, PAL and SECAM broadcast systems for any field or any line	
	Alternative Trigger		CH1/CH2/CH3/CH4: Internal Trigger, Edge, Pulse Width, Video	
Measurement	Cursor Measure		Amplitude difference between cursors (ΔV); Time difference between cursors (Δt);	
			Reciprocal of Δt in Hertz (1/ Δt) (Cross, Trace, Horizontal, Vertical)	
	Auto Measure	Voltage	Vp-p, Vmax, Vmin, Vmean, Vamp, Vtop, Vbase, Vmid, Vrms, Vcrms, Preshoot, Overshoot	
		Time	Frequency, Period, Rise Time(10%~90%), Fall Time(10%~90%), Positive Width, Negative Width, Duty Cycle	
	Waveform Frequency		DC ~ 25MHz	
	DAC clock		2K ~ 200MHz adjustable	
	Frequency Resolution		0.10%	
	Waveform Depth		4K Sample	
Arbitrary	Vertical Resolution		12 bit	
Waveform	Frequency Stability		<30ppm	
Generator	Wave Amplitude		±3.5V Max.	
	Output Impedance		50Ω	
	Output Current		50mA ,lpeak=50mA	
	System BW		25MHz	
	Harmonic Distortion		-50dB(1KHz), -40dB(10KHz)	
	Temperature		Operating: 0°C to 40°C	
			Non-operating: -20°C to +60°C)	
Environmental	Cooling Method		Forced air	
	Humidity		Below +35°C, ≤90% relative humidity; +35°C to +40°C, ≤60% relative humidity	
	Altitude		Operating: 3,000m or below; Non-operating: 15,000m or below	



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Mechanical	Size	190mm(L)×100mm(W)×35mm(H)	
Mechanicai	Heavy	Without Packaged 0.29kg; Packaged 0.9kg;	
Accessories	Probe	X1, X10 two passive probes. The passive probes have a 6MHz bandwidth (rated 100Vrms CAT III) when the switch is in the X1 position, and a maximum bandwidth (rated 300Vrms CAT II) when the switch is in the X10 position. Each probe consists of all necessary fittings.	
	Adapter	A power adapter special for this product. In addition to the power adapter shipped with your instrument, you may purchase another one certified for the country of use.	
	USB Line	A USB A-B line, used to connect external devices with USB-B interface like a printer or to establish communications between PC and the oscilloscope.	
	Installation CD	A software installation CD and it also contains the user manual for the Tenma Oscilloscope.	

Part Number Table

Ī	Description	Part Number
	Oscilloscope, PC, 2 CH, 60MHz, AFG	72-10179

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