



The oscilloscope features of extremely high memory depth, wide dynamic range, clear display, high waveform capture rate and as many as 16 kinds of triggering functions, 5 kinds of serial decoding functions. It is a useful commissioning instrument for various fields such as communication, aerospace, defense, embedded systems, computers, research and education.

Features:

- 1GSa/s real-time sample rate of the digital channels.
- 80MHz analog channel bandwidth.
- 2-channel signal source, 13 kinds of waveform inside, 4 sets of arbitrary waveform, 8Kpts waveform length.
- Segmented acquisition function, support to capture up to 80,000 sections.
- Low base noise, 500uV/div to 10V/div ultra-wide vertical dynamic range.
- 7.0 inch WVGA(800*480) TFT LCD, with ultra-wide screen, vivid picture, low power consumption and long service life.
- Adjustable waveform brightness and display brightness.
- Up to 16 kinds of trigger functions, including 5 kinds of protocol triggers.
- Auto measurement of 42 kinds of waveform parameters (with statistics).
- 5 bits digital voltage meter and 6 bits hardware frequency indicator function.
- Bode diagram function (the oscilloscopes with signal source function can use).
- Compact and delicate industrial design and easy operation.

Specifications:

Acquisition	Real-time sample
Acquisition Methods	2
Channel	80MHz
Bandwidth	1GSa/s
Sample Rate	Analog channel 4ns
Peak Detection	Note: digital channels don't support
	Analog channel
Average Mode	All channels reach N time samples at the same time, N can be selected from 2, 4, 8, 16, 32, 64, 128, 256, 512 and 1024.
	Note: digital channels don't support
High Resolution	Up to 12bit
	Note: digital channels don't support
Minimum Test Pulse Width	8ns
Input	DC, AC or GND
Input Coupling	Note: digital channels don't support
Supported Probe Attenuation Factor	Analog channel 1X, 10X, 100X, 1000X
Voltage Classes	300V CAT II
Maximum Input Voltage	Analog channel 300VRMS(10X)
	Digital Channel -25~25V
Horizontal	(sin x)/x
Waveform Interpolation	Y-T, X-Y, Roll
Time Base Mode	±0.5 div × minimum time base gear
Zero Offset	±25ppm
Sampling Rate and Delay Time Accuracy	±±5ppm/year
Clock Drifting	Single, acquisition mode
	±(1 sample interval + 100ppm × reading + 0.6ns)
Delta Time Measurement Accuracy (Full Bandwidth)	>16 times averages
	±(1 sample interval + 100ppm × reading + 0.4ns)
	Sample interval=sec/div + 200
Vertical	80MHz
Bandwidth (-3db)	Input BNC position is 500uV/div~100V/div
Vertical Scale Range	500uV/div to 120mV/div, ±1V
	122mV/div to 1.2V/div, ±10V
Position Range	1.22V/div to 10V/div, ±50V
	Typical 20MHz
Optional Analog Bandwidth Limitation	In BNC position is ±10Hz
Bass Response(-3db)	In "normal" or "average" acquisition mode, the accuracy of 10V/div to 10mV/div is ±3%
Vertical Gain Accuracy	In "normal" or "average" acquisition mode, the accuracy of 5mV/div to 500uV/div is ±4%
DC Offset Accuracy	±0.1div±2mV±1% offset value
The Isolation of Channels	DC maximum bandwidth: >40dB
Trigger	
Trigger Level Range	±5 divisions from the center of the screen
Trigger Mode	Auto, general, single
Holdoff Range	8ns~10s
Edge Trigger	
Slope	Rising edge, falling edge, rising or falling edge
Pulse Width Trigger	
Polarity	Positive polarity, negative polarity
Condition(When)	<, >, =
Pulse Width Range	8ns~10s
Video Trigger	
Signal Standard	NTSC, PAL
Synchronization	Scanning line, line number, odd field, even field, all field
Measurement	
	Voltage difference between cursors (ΔV)
Cursor	Time difference between cursors (ΔT)
	Reciprocal of ΔT in Hertz (1/ΔT)
Auto Measurement	Frequency, Period, mean, peak-to-peak, RMS, minimum, maximum, rising time, falling Time, +width, -width, base, top, middle, amplitude, overshoot, preshoot, rising edge phase difference, falling edge phase difference, +duty, -duty, period mean, PRMS, FOVshoot, ROVshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF
Display	
Display Type	7" TFT diagonal liquid crystal
Display Resolution	800(horizontal)480(vertical)pixels
Display Color	16 million colours(24 bits true colour)
Persistence Time	Minimum, 1s, 5s, 10s, 30s, infinite
Display Type	Dot, vector
Display Mode	Color temperature, gray scale
Display Brightness	Adjustable
Grid Type	Adjustable
Grid Brightness	Adjustable
Environment	
Operating Temperature	0~50°C
Non-operating Temperature	-40~70°C
	0~30°C: ≤95% relative humidity
Humidity	30~40°C: ≤75% relative humidity
	40~50°C: ≤45% relative humidity
Operating Altitude	Below 3km
Non-operating Altitude	Below 15km
Plug Type: EU / US (Optional)	
Material: ABS	
Voltage: AC100~240V, 50/60Hz	
Item Size: 319 * 150 * 110 / 12.56 * 5.91 * 4.33in	
Item Weight: 3024g / 6.67lb	
Package Weight: 3987g / 8.79lb	
Package Size: 38.5 * 26.5 * 21cm / 15.16 * 10.43 * 8.27in	

