



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 Up to 12bit
High Resolution	Note: digital channels don't support 8ns
Minimum Test Pulse Width	DC, AC or GND
Input	Note: digital channels don't support
Input Coupling	Analog channel 1X, 10X, 100X, 1000X
Supported Probe Attenuation Factor	300V CAT II
Voltage Classes	Analog channel 300VRMS(10X)
Maximum Input Voltage	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
Delta Time Measurement Accuracy (Full Bandwidth)	±(1 sample interval + 100ppm × reading + 0.6ns)
Vertical	>16 times averages
Bandwidth (-3db)	±(1 sample interval + 100ppm × reading + 0.4ns)
Vertical Scale Range	Sample interval=sec/div + 200
Position Range	80MHz
Optional Analog Bandwidth Limitation	Input BNC position is 500uV/div~100V/div
Bass Response(-3db)	500uV/div to 120mV/div, ±1V
Vertical Gain Accuracy	122mV/div to 1.2V/div, ±10V
DC Offset Accuracy	1.22V/div to 10V/div, ±50V
The isolation of Channels	Typical 20MHz
Trigger	In BNC position is ±10Hz
Trigger Level Range	In "normal" or "average" acquisition mode, the accuracy of 10V/div to 10mV/div is ±3%
Pulse Width Trigger	In "normal" or "average" acquisition mode, the accuracy of 5mV/div to 500uV/div is ±4%
Polarity	±0.1div±2mV±1% offset value
Condition(When)	DC maximum bandwidth: >40dB
Pulse Width Range	±5 divisions from the center of the screen
Video Trigger	Auto, general, single
Signal Standard	8ns-10s
Synchronization	Rising edge, falling edge, rising or falling edge
Measurement	Slope
Cursor	Positive polarity, negative polarity
Auto Measurement	<, >, =, =
Display	8ns-10s
Display Type	NTSC, PAL
Display Resolution	Scanning line, line number, odd field, even field, all field
Display Color	Voltage difference between cursors (ΔV)
Persistence Time	Time difference between cursors (ΔT)
Display Type	Reciprocal of ΔT in Hertz (1/ΔT)
Display Mode	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 Brightness	Adjustable
Grid Type	Adjustable
Grid Brightness	Adjustable
Environment	Operating Temperature
Operating Temperature	0~50°C
Non-operating Temperature	-40~70°C
Humidity	0~30°C: ≤95% relative humidity
Operating Altitude	30~40°C: ≤75% relative humidity
Non-operating Altitude	40~50°C: ≤45% relative humidity
Plug Type: EU / US (Optional)	Below 3km
Material: ABS	Below 15km
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	

