

Features

- 200MHz Bandwidth, 1GS/s sample rate
- 14-bit high resolution ADC
- 40M record length 70,000 wfms/s waveform refresh rate
- · Low back ground noise

Applications

- · Electronic circuit debugging
- Education and training
- Circuit testing
- Design and manufacture
- Automobile maintenance and testing



Model P4025T Datasheet v1.0 200 MHz Touch Screen Oscilloscope

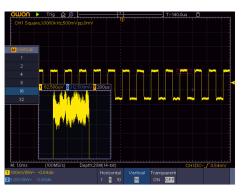


Description

The Model P4025T is a 200 MHz digital oscilloscope packed with measurement modes and features. The display doubles as a touchscreen allowing hand gestures like zooming in on a waveform. The Model P4025T offers 4 independent channels.

Key Features of the P4025T

The P4025T introduces 14 bits hardware ADC, the precision is 64 times against other oscilloscope on market. It can observe the signal low down to $31.25\mu V/div$.

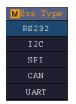


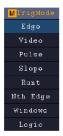


• Platform - restore the waveform detail fully

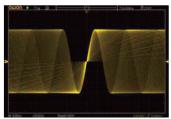




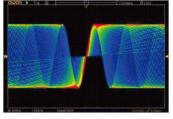




Multi-level grayscale, and color temperature display



within certain unit time, more frequent one waveform pixel appears, more vivid it is



the frequency of waveform reflecting in color temperature value, larger the value is, more frequent the waveform appears





Key Features of the P4025T Cont.

- Multi-trigger supported Logic, Time-out, I2C, SPI, RS232, Runt, Windows, Nth Edge, and CAN
- Serial bus coding available in I2C, SPI, RS232, and CAN.
- Built-in multimeter module, with auto-scale, and data logging function
- Built-in dual-channel 25MHz / 50MHz arbitrary waveform generator module, with sample rate of 125MS/s / 250MS/s
- Its built-in WiFi module facilitates mobile device connecting with XDS seris product, to get access to remote control, together with simultaneous measurement result display
- Its multi-point touch function improves operation efficiency considerably
- Optional battery makes floating measurement possible, advancing the operation convenience

Performance Specifications

Bandwidth	200 MHZ
Sample Rate	1GS/s
Vertical Resolution (A/D)	14 bits
Record Length	40 M
Waveform Refresh Rate	75,000 wfms/s
Horizontal Scale (s/div)	2ns/div, 1000 step by 1 - 2 - 5
Rise Time (at input typical)	≤1.7ns
Channel	4
Display	8" color LCD, 800 x 600 pixels display
Input Impedance	$1MΩ \pm 2\%$, in parallel with 15pF ± 5pF
Channel Isolation	50Hz: 100: 1, 10MHz: 40: 1
Max Input Voltage	1MΩ ≤ $300Vrms$;
DC Gain Accuracy	±3%
DC Accuracy	average≥16: ±(3% reading + 0.05 div) for △V
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5
LF Respond (AC, -3dB)	≥5Hz
Sample Rate / Relay Time Accuracy	±2.5ppm
Interpolation	(sinx) / x, x



Performance Specifications Cont.

Interval (△T) Accuracy (full bandwidth)		Single: ±(1 interval time + 1ppm x reading + 0.6ns); Average > 16: ±(1 interval time + 1ppm x reading + 0.4ns)
Input Coupling		DC, AC, and GND
Vertical Sensitivity		1mV/div - 10V/div (at input)
Trigger Type		Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I ² C, SPI, RS232, and CAN (optional)
Bus Decoding		I ² C, SPI, RS232, and CAN (optional)
Trigger Mode		Auto, Normal, and Single
Vertical Range		±2V (1mv/div - 50mv/div), ±20V (100mv/div - 1V/div), ±200V (2V/div - 10V/div)
Line / Field Frequency (video)		NTSC, PAL and SECAM standard
Cursor Measurement		$\triangle V,$ and $\triangle T$ between cursors, $\triangle V$ and $\triangle T$ between cursors, and auto- cursors
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time,+Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B↑, Delay A→B↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count
Waveform Math		+, -, ×, ÷, FFT
Waveform Storage		100 waveforms
Lissajou's Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees
Communication Interface		USB host, USB device, USB port for PictBridge, Trig Out (P/F), LAN, and VGA (optional)
Frequency Counter		available
Power Supply		100V - 240V AC, 50/60Hz, CAT II
Fuse		2A, T class, 250V
Battery (optional)		3.7V, 13200mAh
Dimensions (W × H × D)		340 x 177 x 90 mm
Device Weight		2.60 kg

