

## XDS2102A Oscilloscope Technical Specifications

Performance Characteristics	Instruction		
<b>Bandwidth</b>	100 MHz		
<b>Vertical Resolution (A/D)</b>	12 bits		
<b>Horizontal Scale</b>	2ns/div-1000s/div, step by 1 – 2 - 5		
<b>Rise Time</b>	≤ 3.5 ns		
<b>Sample rate (real time)</b>	Dual CH	500 MSa/s	
	Single CH	8 bits mode	1 GSa/s
		12 bits mode	500 MSa/s
<b>Waveform capture rate</b>	55,000 wfms/s		
<b>Display</b>	8" color LCD, TFT display , 800×600 pixels		
<b>Channel</b>	2 + 1 (External)		
<b>Record length</b>	2 channels ON: max 10M; 1 channel ON: max 20M.		
<b>Sampling rate / relay time accuracy</b>	±1 ppm (Typical, Ta = +25°C)		
<b>Input coupling</b>	DC, AC, Ground		
<b>Input impedance</b>	1MΩ±2%, in parallel with 15pF±5pF		
<b>Max. input voltage</b>	1MΩ: ≤300 Vrms		
<b>DC gain accuracy</b>	1 mV	3%	
	2 mV	2%	
	≥ 5 mV	1.5%	
<b>Vertical sensitivity</b>	1 mV/div - 10 V/div		
<b>Trigger type</b>	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232/UART, CAN		
<b>Decoding Type</b>	RS232/UART, I2C, SPI, CAN		
<b>Trigger mode</b>	Auto, Normal, Single		
<b>Line/field frequency (Video)</b>	Support standard NTSC, PAL and SECAM		
<b>Automatic measurement</b>	Max, Min, PK-PK, Top, Base, Amplitude, Mean, RMS, Cycle RMS, Cursor RMS, Overshoot, Preshoot, Period, Frequency, Rise Time, Fall Time, +PulseWidth, -PulseWidth, +Duty Cycle, -Duty Cycle, Screen Duty, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Delay A→B $\overline{\text{H}}$ , Delay A→B $\overline{\text{L}}$ , Phase, +PulseCount, -PulseCount, RiseEdgeCnt, FallEdgeCnt, Area, Cycle Area.		
<b>Waveform math</b>	+, -, ×, ÷, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)		
<b>Waveform storage</b>	50 waveforms		
<b>Communication interface</b>	Standard	USB host, USB device, Trig Out (Pass/Fail), LAN,	
	Optional	VGA and AV	
<b>Printer compatibility</b>	PictBridge		
<b>Power supply</b>	100V - 240 VACRMS, 50/60 Hz, CAT II		
<b>Fuse</b>	2 A, T class, 250 V		

### Mechanical Specifications

<b>Dimension</b>	340 mm× 177 mm×90 mm (L*H*W)
<b>Weight</b>	Approx. 2.6 kg (without accessories)



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V1.1.0