Specifications

Technical data of the oscilloscope

Model	FDS1102	FDS1102A
Bandwidth	100MHz	
Sample Rate	1GS/s	
Vertical resolution (A/D)	8 bits	14 bits
channel	2	
Input impedance	1MΩ ± 2%, parallel to 15pF ± 5pF	
Input coupling	DC, AC and GND	
Record length	10M	
Horizontal scale (s/div)	2ns/Div – 1000s/Div, step by step 1 – 2 – 5	
Maximum input voltage	1MΩ ≤ 300Vrms;	
Vertical sensitivity	1 mV/div - 10 V/div (at input)	
Cursor measurement	△V and △T between cursors, △V and △T between cursors and auto cursors	
Automatic measurement	Period, Frequency, +Pulse Width, -Pulse Width, Rise Time, Fall Time, Screen Load, +Duty Cycle, -Duty Cycle, PK-PK, RMS, Overshoot, Max, Min, Top, Cycle-RMS, Base, Amplitude, Pre-Swing, +Pulse Count, - Pulse number, rising edge number, falling edge number, range、cycle range, delay A→B, delay A→B, phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF	
Waveform math	+ , - , ×, ÷, FFT, user-defined function, digital filter	
Waveform memory	128MB, 100 waveforms	
Lissajous figure	Bandwidth	full bandwidth	
	Phase difference	±3 degrees	
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I ^{2} C, SPI, RS232, LIN and CAN	
Line/field frequency (video)	NTSC, PAL and SECAM standards	
Trigger mode	Auto, Normal and Single	
interface	HDMI; USB device *1, USB host *4; Trigger output (P/F); LAN; headphones	
Frequency counter	available	
WiFi (optional)	available	
Advertisement	10.4 inch (1024×768) touch LCD	

Performance information

channel		CH1/CH2
Rated power (0°C-40°C)	Maximum tension	0.1-15V
	Maximum tension	0.1-3A
	Maximum strength	15W
Set resolution	Voltage	10mV
	Current	10mA

Multimeter specification

Full reading	4½ digits	Frequency response	(40 - 1000) Hz
Automatic range selection	√	Ture rms	√
Measure	Voltage, Current, Capacity, Resistance, Frequency, Duty Cycle, Next, Diode Test		

Waveform generator specification

Maximum frequency output	50MHz
Sample Rate	300MS/s
channel	2
Amplitude (HF)	2mVpp - 10Vpp
Waveform length	8 THOUSAND