

## SDS7102 - Features and Benefits



- 100 MHz Bandwidth, 1GSa/s Real-time Sample Rate
- High-resolution TFT color display, 800×600 pixels, 65535 colors
- Saving of measured values and graphics directly onto the USB-stick
- VGA-output port for external monitor(optional)
- Autoset and autoscale function for easy operation
- LAN connection for remote acces via network
- Internal memory of 10 million points per channel or 15 waveforms
- 20 automatic measurement modes and FFT function
- PASS/FAIL function

Specifications	Model	SDS7102
	Bandwidth	100MHz
	Sample rate(Real time)	1GS/s
	Horizontal Scale(S/div)	2ns/div~100s/div, step by1~2~5
	Rise time (at input, typical)	≤3.5ns
	Channels	2 + 1 (External)
	Display	8" color LCD, TFT display , 800×600 pixels, 65535 colors
	Record length	Max. 10M
	Input impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF
	channels Isolation	50Hz : 100 : 1 , 10MHz : 40 : 1
	Max.input voltage	400V(PK-PK) (DC+AC PK-PK)
	DC gain accuracy	±3%
	DC accuracy(Average)	Average≥16:±(3% reading+0.05div) for Δ V
	Probe attenuation factor	1X, 10X, 100X, 1000X
	LF respond(AC,-3dB)	≥10Hz(at input,AC coupling,-3dB)
	Sample rate/relay time accuracy	±100ppm
	Interpolation	(sinx)/ x
	Interval(ΔT) accuracy	Single: ±(1 interval time+100ppm×reading+0.6ns) Average>16:±(1 interval time+100ppm×reading+0.4ns)
	Input coupling	DC, AC , GND
	Vertical resolution(A/D)	8 bits resolution (2 Channels simultaneously)
	Vertical sensitivity	2mV/div~10V/div
	Trigger type	Edge, Pulse, Video, Slope, Alternate
	Trigger mode	Auto, Normal, Single
	Trigger level	±6 divisions from screen center
	Line/field frequency(Video)	Support standard NTSC,PAL and SECAM broadcast systems
	Cursor measurement	Δ V and Δ T between cursors
	Automatic measurement	Vpp, Vavg, Vamp, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Overshoot, Preshoot,Rise Time, Fall Time, Delay A→B↓, Delay A→B↑, +Width, -Width, +Duty, -Duty
	Waveform Math	+ , - , × , ÷ , FFT
	Waveform storage	15 waveforms
	Communication interface	USB, USB flash disk storage, Pass/Fail, LAN,VGA(optional)
	Dimensions	340mm(L)×155mm(H)×70mm(W)
	Weight	1.8 kg