

MDS-620

- 20MHz dual channel
- High sensitivity 1mV/DIV
- Maximum sample rate: 20MSa/s
- Store depth: 1K×CH2+1K×2(reference memories)
- Preset triggering function, pre-trigger signal observation
- Two channels, two reference waveform display, simultaneous four waveform information
- The minimum sweeping speed is 10s/DIV, the ration measures the ultra low frequency signals
- Measure and display single shot, nonperiodic signals
- Built-in RS232 interface for communication with the computer
- Analog, ultra low speed and storage oscilloscope, three in one



MDS-620

Technical Data

Digital Storage Oscilloscope MDS-620

Vertical System	Vertical resolution	8bits (28point/DIV)
	Accuracy	$\pm 3\% \pm 0.4\text{mm} (\times 5\text{MAG}: \pm 5\% \pm 0.4\text{mm})$
	Equivalent bandwidth	DC~8MHz, -3dB
	Sine interpolation	Sine/Line
Horizontal System	Maximum sample rate	20MSa/s
	Horizontal resolution	10bits(100point/DIV)
	Time base	$0.2\mu\text{s}/\text{DIV} \sim 10\text{s}/\text{DIV} (\times 10\text{MAG}: 1\text{s}/\text{DIV} \sim 20\text{ns}/\text{DIV})$
	Sweep mode	AUTO, NORM, ROLL
	Saved waveform expanded rate	Maximum 100
	Trigger	Trigger preset: DIV2,5,8
Display	View time	0.2s~5s adjustable
	Display memory length	1024Byte/CH
	Reference memory length	1024Byte/CH
	RS232 interface transfer rate	19200

Technical Data

Analog Oscilloscope MDS-620

CRT	Type	6-inch rectangular with internal graticule 8 × 10DIV[1DIV=10mm]		
	Acceleration voltage	Approx.2kV		
	Trace rotation	Adjusted at front panel		
Vertical System	Sensitivity and accuracy	≤3%, 5mV~5V/DIV, 10 steps in 1-2-5 sequence		
	Bandwidth	DC~20MHz(× 5MAG:DC~7MHz)		
	Rise time	Approx.17.5ns(× 5MAG:Approx.50ns)		
	Input impedance	Approx.1MΩ/Approx.25pF		
	Maximum input voltage	300Vpeak (AC: frequency 1KHz or lower)		
	Input coupling	AC, GND, DC		
	Vertical mode	CH1,CH2 ,DUAL(ALT/CHOP) ,ADD,CH2 INV		
	Chopping repetition frequency	Approx. 250kHz		
Horizontal System	Sweep time	0.2uSec~0.5Sec/DIV , 20 steps in 1-2-5 sequence		
	Sweep time accuracy	± 3% , ± 5 % at × 10MAG (20ns~50ns/DIV uncalibrated)		
	Sweep magnification	10 times		
	Max. sweep time	20ns/DIV		
	Linearity	± 5% , × 10MAG: ± 10%(0.2s~1us)		
	Vernier sweep time control	≤1/2.5 of panel-indicated value		
Trigger	Trigger mode	AUTO; NORM; TV-V; TV-H		
	Trg-level lock	Yes		
	Trigger source	CH1,CH2,LINE,EXT		
	Trigger coupling	AC:20Hz to full bandwidth		
	Trigger slope	“+” or “-”		
	Trigger sensitivity	20Hz~2MHz	2MHz~20MHz	
		CH1,CH2	0.5DIV	1.5DIV
		ALT	1.5DIV	1.5DIV
		EXT	200mV	800mV
	EXT trigger input	TV: Sync pulse more than 1 DIV (EXT:1V)		
		Input impedance: Approx.1MΩ/approx.25pF		
		Max.input voltage:300V (DC+AC peak), at 1KHz		
X-Y Mode	Sensitivity	5mV-5V/DIV, ± 4%		
	X-axis bandwidth	DC ~500KHz		
	phase error	≤3°at DC~50KHz		
Output Signal	CH1 signal output	At least 20mV/DIV into 50Ω termination. Bandwidth is 50Hz to at least 50MHz.		
	Calibration output	1KHz square wave, 2Vp-p ± 2%		
Z-axis input	Sensitivity	≥5Vp-p		
	Frequency bandwidth	DC~2MHz		
	Input impedance	Approx.47k Ω		
	Max.input voltage	30V(DC+AV peak) at 1kHz or less		
Power Source	AC220V ± 10%(standard), AC110/220V ± 10%(optional), 50/60Hz,approx.35VA			
Dimension/Weight	445(D) × 310(W) × 150(H)mm Approx.8kg			