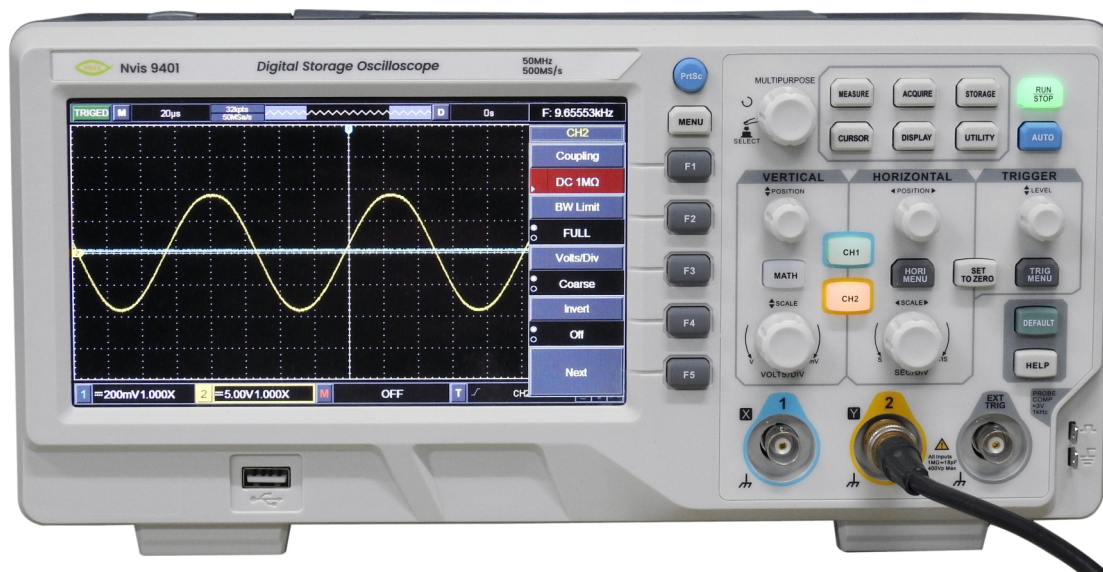




Digital Storage Oscilloscope

Nvis 9401



Features

- Bandwidth: 50MHz.
- Measurement channel: 2 analog channels.
- Real-time sampling rate: 500MS/s.
- Storage depth: 64kpts.
- Waveform capture rate: 5,000wfms/s.
- Auto measurement: 34 waveform types.
- Abundant trigger: Edge * Pulse width * Slope trigger * Video trigger, Alternating trigger.
- Display: 7-inch WVGA (800X 480) TFT LCD, super-widescreen.
- Peripheral interface: Standard USB Host, USB Device, EXT Trig, Pass/Fail.
- New Autoset function

Quick Model Selection

Analog Bandwidth	50MHz
Channels	2
Real-time	500MS/s
Equivalence	25GS/s
Storage Depth	64kpts
Capture rate	5000 wfms/s
Rise Time (Typical)	$\leq 7\text{nS}$



Technical Specification

Time-base scale	2ns/div - 50s/div.
Record length	2 x 512k sampling point.
Storage depth	Single channel: 64k; Double channel: 32k.
Vertical	
Analog-to-digital converter (A/D)	8bit.
Deflection factor range (V/div)	1mV/div~20 V/div (at 1-2-5 increment).
Position range	$\geq \pm 8\text{div}$
Selectable bandwidth limitation Typical	20MHz.
Low frequency response (AC Coupling, -3dB)	5Hz(above BNC).
DC gain accuracy (sampling or average sampling mode)	5mV~20V/div: $\leq \pm 3\%$ 1mV~20V/div: $\leq \pm 4\%$
Trigger System Specifications	
Trigger sensitivity	$\leq 1\text{div}$.
Pre-trigger capacity	Normal mode/scan mode, pre-trigger/delay trigger, the pre-trigger depth is adjustable.
Trigger mode	AUTO, normal, single.
Trigger mode	
Edge	Rise, fall, arbitrary edge.
Pulse width	Pulse width term: $X < x =$ Polarity: positive pulse width, negative pulse width. Pulse width range: 20ns~10s.
Slope trigger	Slope condition: Positive slope ($\nearrow$, $\nwarrow$, within the scope); Negative slope ($\searrow$, $\swarrow$, within the scope) Time: 20ns~10s.
Video trigger	Trigger sensitivity (Typical): 2divVpp
Alternating trigger	Alter, Edge, Pulse, Slope.



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Measurements	
Cursor	Manual mode Voltage difference between cursors (ΔV), Time difference between cursors (ΔT), Reciprocal of ΔT (Hz) ($1/\Delta T$) Track mode: Voltage value and time value of point of waveform. Auto measurement mode: Cursor display is allowed on auto measurement mode.
Automatic measurement	Vpp, Vamp, Vmax, Vmin, Vtop, Vbase, Vmid, Average, Vrms, Overshoot, Preshoot, Frequency, Period, Rise Time, Fall Time, +Width, Width, +Duty, Duty, Delay, FRFR, FRFF, FFFR, FFFF, FRLF, FRLR, FFLR, FFLF.
Measurement quantity	Display 5 types of measurement at the same time.
Measurement scope	Screen or cursor.
Measurement statistics	Average value, maximum value, minimum value and standard deviation.
Math	
Math operation	+ - X, -T.
Window	Rectangle, Hanning x Blackman x Hamming.
Vertical scale	VrmSx dBVrms.
Digital filtering	Low pass, high pass, band pass, band reject.
Input Channel Specifications	
Input Coupling	DC, AC and GND.
Input impedance	$(1M\Omega \pm 2\%) // (18pF \pm 3 pF)$.
Maximum input voltage	400Vpk, the transient over voltage is 1000 Vpk.
Display	
Displays types	LCD with Diagonal of 178mm(7-inch).
Display color	Color.
Waveform luminance	Adjustable.
Interface function	
Standard configuration	Standard USB Host, USB Device, EXT Trig, Pass/Fault.



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Trigger frequency meter	
Reading resolution	6bits.
Trigger sensitivity	$\leq 30V_{rms}$.
Probe compensator output	
Output voltage (Typical)	About 3Vpp, when the load $\geq 1M\Omega$.
Frequency (Typical)	10Hz,100Hz, 1kHz (Default),10kHz.
Power	
Power voltage	100V-240V-(Fluctuations 10%) , 50/60Hz.
Power consumption	100VA max.
Fuse	1.6A 250V.
Environment Specifications	
Operating temperature	Operating Temperature Range: 0°C+40°C.
Operating Humidity Range	<35°C: $\leq 90\%RH$, 35°C~40°C: $\leq 60\%RH$.
Mechanical specifications	
Size	306mm(W) x 138(H) x 124mm(D).
Weight	2.5kg approx.