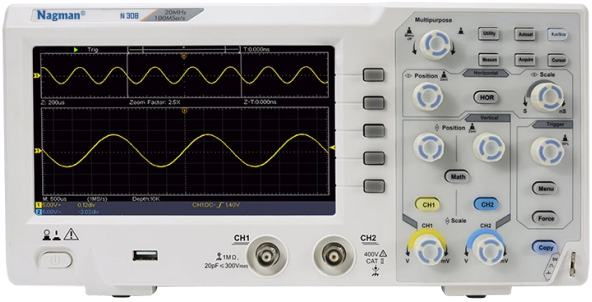
2 CHANNEL ECO OSCILLOSCOPE

NAGMAN 308

SALIENT FEATURES

- Max 35MHz frequency output
- 500MSa/s Sample rate, Vertical resolution 1µHz
- 14 bits Vertical Resolution, 10Marb waveform length
- Comprehensive waveform output : 6 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions : AM, FM, PM, FSK, 3FSK, 4FSK, PSK, OSK, ASK, BPSK, PWM, Sweep, and Burst
- High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- SCPI, and LabVIEW supported
- 7 inch (800 × 480 pixels) multi-touch screen, support



Typical Photo: Final Product look may vary

GENERAL SPECIFICATIONS

Display Type	7" Colored LCD (Liquid Crystal Display)
Display Resolution	800 (Horizontal) × 480 (Vertical) Pixels
Display color	65536 colors, TFT screen
Output Voltage (Typical)	About 5 V, with the Peak-to-Peak voltage ≥1 MΩ.
Frequency (Typical)	Square wave of 1 KHz
Mains Voltage	100 - 240 VACRMS, 50/60 Hz, CAT Ⅱ
Power Consumption	< 15 W
Fuse	2 A, T class, 250 V
Temperature	Working temperature: 0 ℃ - 40 ℃ Storage temperature: -20 ℃ - 60 ℃
Relative Humidity	≤ 90%
Height	Operating: 3,000 m Non-operating: 15,000 m
Cooling Method	Natural cooling
Dimension	301 mm× 152 mm×70 mm (L*H*W)
Weight	About 1.1 kg
Interval Period of Adjustment	One year is recommended for the calibration interval period

PERFORMANCE CHARACTERISTICS

Bandwidth		200 MHz
Channel		2 channels
Acquisition	**Mode**	Normal, Peak detect, Averaging
	Sample Rate (Real Time)	1 GS/s
Input	**Input Coupling**	DC, AC, Ground
	Input Impedance	1 MΩ ±2%, in parallel with 20 pF ±5 pF
	Input Coupling	1X, 10X, 100X, 1000X
	Max. Input Voltage	400V (DC+AC, PK - PK)
	Channel – Channel Isolation	50Hz: 100 : 1 10MHz: 40 : 1
	Time Delay between Channel (Typical)	150ps
	Bandwidth limit	20 MHz, Full Bandwidth

Horizontal System	**Sampling rate range**		0.5 S/s～1 GS/s
	Interpolation		(Sinx)/x
	Max Record length		10K
	Scanning speed (S/div)		2 ns/div – 1000 s/div, step by 1 – 2 - 5
	Sampling rate / Relay time accuracy		±100 ppm
	Interval (△T) Accuracy (DC - 100MHz)		Single： ±(1 interval time+100 ppm×reading+0.6 ns); Average>16： ±(1 interval time +100 ppm×reading+0.4 ns)
Vertical system	**Vertical Resolution (A/D)**		8 bits (2 channels simultaneously)
	Sensitivity		5 mV/div～5 V/div
	Displacement		±2 V (5 mV/div – 200 mV/div) ±50 V (500 mV/div – 5 V/div)
	Analog bandwidth		200 MHz
	Single bandwidth		Full bandwidth
	Low Frequency		≥10 Hz (at input, AC coupling, -3 dB)
	Rise Time (at Input, Typical)		≤ 1.75 ns
	DC Gain Accuracy		±3%
	DC Accuracy (average)		Delta Volts between any two averages of ≥16 waveforms acquired with the same scope setup and ambient conditions (△V): ±(3% reading + 0.05 div)
	Waveform Inverted ON/OFF		
Measurement	**Cursor**		△V, △T, △T&△V between cursors, auto cursor
	Automatic		Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +PulseWidth, -PulseWidth, +Duty Cycle, -Duty Cycle, Delay A→B , Delay A→B , Cycle RMS, Cursor RMS, Screen Duty, Phase, +PulseCount, -PulseCount, RiseEdgeCnt, FallEdgeCnt, Area, and Cycle Area
	Waveform Math		＋, －, *, / ,FFT
	Waveform Storage		16 waveforms
	Lissajous Figure	**Bandwidth**	Full bandwidth
		Phase Difference	±3 degrees
Communication Port	USB 2.0 (USB storage)		
Counter	Support		

TRIGGER

Trigger level range	Internal	±5 div from the screen center
Trigger level Accuracy (typical)	Internal	±0.3 div
Trigger Displacement	According to Record length and time base	
Trigger Holdoff Range	100 ns – 10 s	
50% level setting (typical)	Input signal frequency ≥ 50 Hz	
Edge Trigger	Slope	Rising, Falling
Video Trigger	Modulation	Support standard NTSC, PAL and SECAM broadcast systems
	Line number range	1-525 (NTSC) and 1-625 (PAL/SECAM)

STANDARD INCLUSIONS

- Basic Instrument
- Probe
- Probe Adjust
- Power Cord
- USB cable
- CR Rom
- Conformance Certificate
- Instruction Manual

OPTIONAL

- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Manufactured by

NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY

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