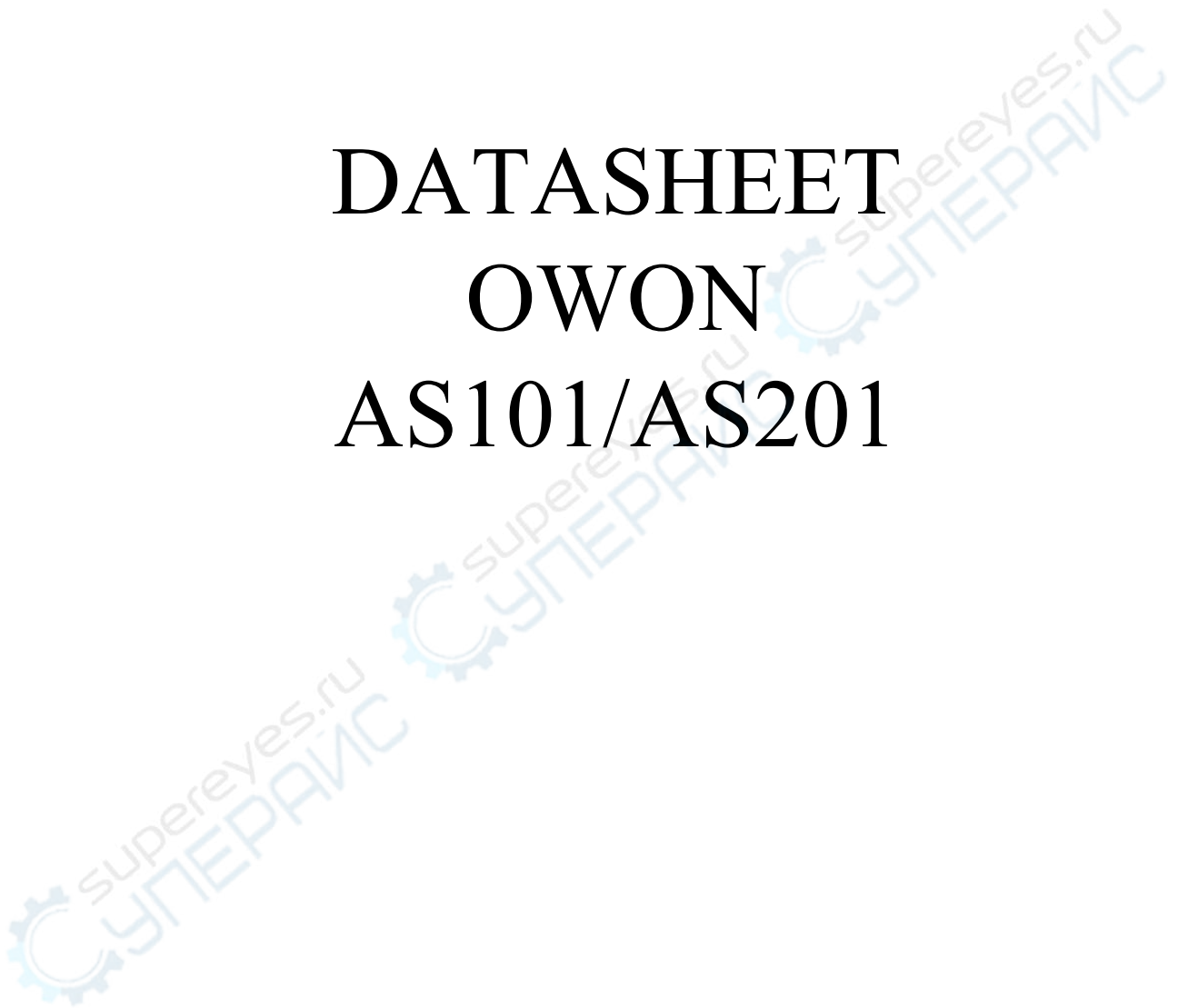


**DATASHEET**  
**OWON**  
**AS101/AS201**





**3.7" Colored  
LCD**

**4 seconds**  
Fast start-up

**130,000 wfms/s**  
refresh rate

**AS101 & AS201**  
Oscilloscope

- Convenient operation panel is similar to analog oscilloscope
- 1-Channel
- Bandwidth : 10MHz (AS101), 20MHz (AS201), Sample rate : 100MS/s
- 130,000 wfms/s waveform capture rate, easily capturing exceptional and low probability events
- 3.7" Colored LCD
- Compact size for space-saving

1

## Learn fast for the user of analog oscilloscope

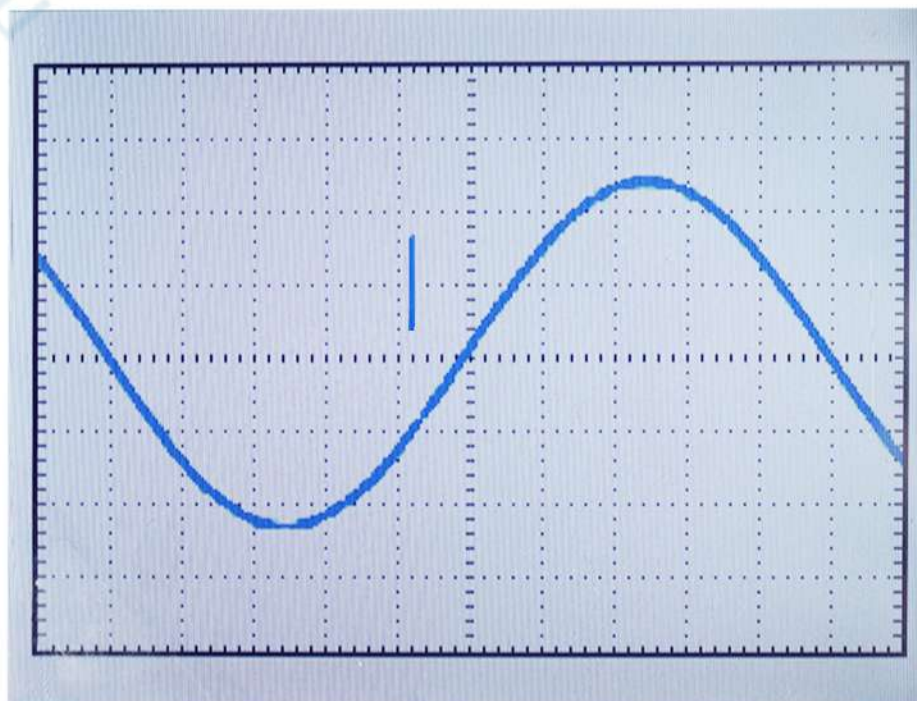
retain the operation panel of analog oscilloscope, easily to teach in the field of education, no need to modify the teaching



2

## Waveform capture rate

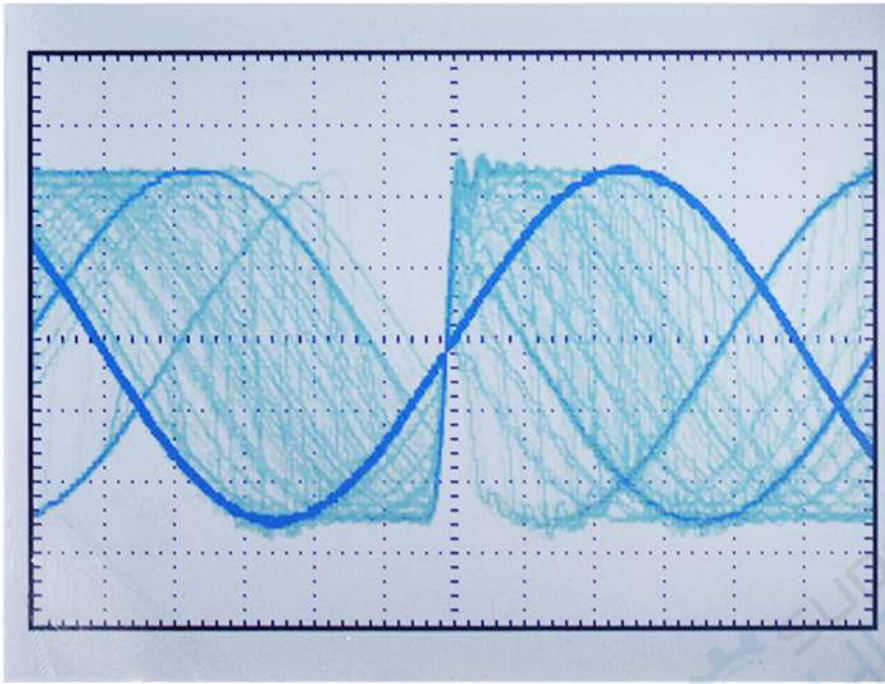
130,000 wfms/s waveform capture rate, close to analog oscilloscope, easily capturing exceptional and low probability events



### 3

## Waveform grayscale

multi-level grayscale, display different amplitude components

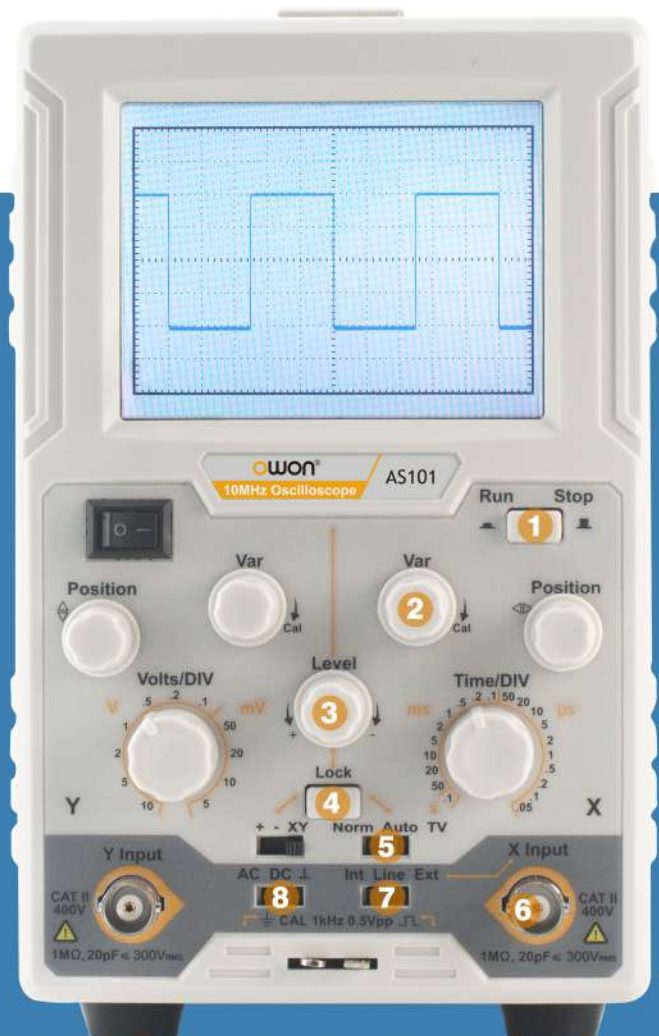


### 4

## Run/stop function

Stop state is more suitable for waveform viewing and analysis

- 1/ Stop button, suitable for waveform analysis.
- 2/ Continuously adjust the sweep rate and vertical sensitivity.
- 3/ Adjust the trigger level.
- 4/ Trigger lock button: When the Lock button is pressed down, the trigger level is automatically maintained at optimum value irrespective of the signal amplitude.
- 5/ Norm/Auto/TV, three trigger mode options.
- 6/ External trigger / X-axis input terminal (Lissajous figure experiment)
- 7/ Select trigger source: Internal/Line/External
- 8/ Select coupling mode: AC/DC/Ground



Model		AS101	AS201
Bandwidth		DC:0~10MHz, AC: 10 Hz~10MHz	DC:0~20MHz, AC: 10 Hz~20MHz
Channel		1	
Horizontal system	Sample Rate	100MS/s	
	Interpolation	(Sinx)/x	
	Scanning speed (S/DIV)	0.05us/DIV ~ 0.1s/DIV, step by 1 - 2 - 5	
	relay time accuracy	±100 ppm	
	Trimming Ratio	≥2.5:1	
Vertical system	Sensitivity	5 mV/DIV ~ 10 V/DIV	
	Displacement	±10DIV	
	Analog bandwidth	10 MHz	20 MHz
	Low Frequency	≥10 Hz (at input, AC coupling, -3 dB)	
	Rise time (at input, Typical)	≤ 30 ns	
	Trimming Ratio	≥2.5:1	
Input coupling		DC, AC, Ground	
Input impedance		1 MΩ±2%, in parallel with 20 pF±5 pF	
Max. input voltage		400V (DC+AC, PK - PK)	
<b>X-Y Model</b>			
Sensitivity		X:0.5V/DIV Y:0.1V/DIV ~ 1V/DIV	
Bandwidth(-3dB)		DC: 0 ~ 1MHz AC: 10Hz ~ 1MHz	
<b>Trigger</b>			
Trigger level range		±4 DIV from the screen center	
Trigger level Accuracy (typical)		±0.3 DIV	
Trigger Sources		Int, Line, Ext	
Trigger Mode		Norm, AUTO, TV	
Edge trigger		Rising, Falling	
Video Trigger		Support standard NTSC, PAL and SECAM broadcast systems	
Sample Rate / Relay Time		±100ppm	
Trigger lock		support	
Ext. Trigger Input Impedance		1 MΩ±2%, in parallel with 20 pF±5 pF	
Ext. Trigger Max. Input Voltage		400Vpp	
<b>Trigger Output of the probe compensator</b>			
Output Voltage (Typical)		Square, 0.5Vpp±2%	
Frequency (Typical)		Square wave of 1 kHz(±1%)	
Display		3.7" Colored LCD (Liquid Crystal Display)	
Power Supply		100V - 240V AC, 50/60Hz, CAT II	
Power Consumption		< 15W	
Fuse		1A, T class, 250V	
Dimension (W x H x D)		117 x 192 x 288 mm	
Device Weight		About 1.8 kg	

## Accessories and Packaging



**Dimension (W×H×D):** 117 x 192 x 288 (mm)

**Device Weight:** Approx. 1.8 kg

**Packaging Size (W×H×D):** 397 x 182 x 253 (mm)

