

OSCILLOSCOPE OWON PDS6042



PDS series

1. 7.8 (8.0) 1NCH COLOR DISPLAY FOR LARGE VIEW
2. STN PANEL AND TFT PANEL FOR OPTIONAL
3. USB CONNECTION
4. BATTERY BACK UP FOR OPTIONAL



PERFORMANCE CHARACTERISTICS

Bandwidth

PDS5022: 25MHz PDS6042: 40MHz PDS6062: 60MHz

Channels

2 + External

Display

7.8 inch Color for STN panel (640X480 resolution)
8.0 inch Color for TFT panel (640X480 resolution)

Acquisition

Mode: Normal, Peak detect, Averaging
Sample rate (real time): PDS5022: 100MS/s PDS6042: 250MS/s PDS6062: 250MS/s

Input

Input coupling: DC, AC
Input impedance: 1 M $\pm$ 2% in parallel with 20pF $\pm$ 3pF
Probe attenuation factors: 1X, 10X, 100X, 1000X
Max. input voltage: 300V(PK-PK) CAT II

PERFORMANCE CHARACTERISTICS

Horizontal system

Sampling range	PDS5022: 10S/s ~ 100MS/s PDS6042: 10S/s ~ 250MS/s PDS6062: 10S/s ~ 250MS/s
Record length	Max. 5K points
Time base range	5ns/div ~ 50s/div (step as 1~2.5~5)
Time base accuracy	100ppm

Vertical system

Vertical resolution	8 bits
Vertical sensitivity	5mV/div ~ 5V/div (Input to BNC)
Position range	PDS5022: ± 10 div(5mV/div ~ 5V/div) PDS6042: ± 50 V(500mV~5V) PDS6062: ± 2 V(5mV~200mV)
Single bandwidth	Full bandwidth
LF Respond (AC, -3dB)	≥ 5 Hz (to BNC)
Rising time (typical on BNC)	PDS5022: ≤ 14 ns PDS6042: ≤ 8.75 ns PDS6062: ≤ 5.8 ns
DC Gain accuracy	$\pm 5\%$

Trigger

Trigger mode	Edge, Video
Trigger sensitivity	DC coupling: CH1 and CH2: 1div (DC~25M) EXT: 100mV(DC~20M) EXT/5: 500mV(DC~20M) AC coupling: CH1 and CH2: 1div (50Hz~Full bandwidth)
Trigger level range	Internal: ± 6 divisions from center screen EXT: ± 600 mV EXT/5: ± 3 V
Trigger level accuracy	Internal: ± 0.3 divisions EXT: ± 400 mV +6% setting value EXT/5: ± 200 mV +6% setting value
Trigger Sensitivity	Internal: 2 divisions EXT: 400mV EXT/5: 2V
Line/field frequency(Video)	Support NTSC, PAL and SECAM

Measurement system

Cursors measurement	ΔV , ΔT
Automatic measurement	PK-PK, Averaging, RMS, Frequency, Circle
Waveform math	+, -, INVERTED
Waveform storage	4 waveforms, 4 settings
Lissajou's figure	Available

Probe compensation output

Output voltage	Approx 5V, PK-PK ≥ 1 M loading
Frequency	1KHz square wave

Power supply

Voltage	100 ~ 240 VAC, 50Hz, CAT II
Power consumption	≤ 15 W
Fuse	1A, T class, 250V