

OSCILLOSCOPE

PCE-OC 3



- » **1 Channel oscilloscope**
- » **Voltage and frequency measurement**
- » **Bandwidth: 200 kHz, sampling rate: 2.5 MS/s**
- » **Time base: 10 μ s / 500 s**
- » **Trigger modes: Auto / Normal / Single**
- » **Measurement functions: MIN, MAX, RMS, Peak-Peak, AVG**
- » **2.8 inch TFT colour display**

This oscilloscope was developed for mobile use and for quick signal analyses in the workshop, laboratory or on site. It records voltages in the range from -400V ... +400V, depending on the selected mode (X1 or X10, switchable directly on the device). It offers a vertical sensitivity of 10 mV/div ... 10V/div in X1 mode and 100 mV/div ... 100V/div in X10 mode. The measurement is carried out using the crocodile clips supplied. With a time base of 10 μ s ... 500 s/div, a bandwidth of 200 kHz and a sampling rate of 2.5 MS/s, the oscilloscope enables reliable and precise visualization of electrical signals.

For efficient signal processing, waveforms can be paused and selectively shifted - for example to detect interference or to analyze complex modulation processes. The automatic measurement function records signal parameters such as frequency, period duration, effective value (RMS), average value (AVG), maximum and minimum voltage as well as the peak-to-peak value. An adjustable trigger voltage ensures a stable display. DC and AC voltages can be viewed separately via a switchable coupling. An integrated calibration signal output with 1 kHz and 50% duty cycle is available for checking test leads or probes.

A high-resolution 2.8-inch color display clearly shows the waveform. Power is supplied by a 1000 mAh lithium battery, which is charged via USB-C (5V/1A). Automatic switch-off after 30 minutes increases energy efficiency in mobile operation.

Specification

Direct voltage DC	
Measurement range up to	-40 ... +40 V
Resolution	0,01 V
Accuracy	±10 % of Rd
Direct voltage DC	
Measurement range up to	-400 ... +400 V
Resolution	0,01 V
Accuracy	±10 % of Rd
AC voltage	
Measurement range up to	-40 ... +40 V
Resolution	0,01 V
Accuracy	±10 % of Rd
AC voltage	
Measurement range up to	-400 ... +400 V
Resolution	0,01 V
Accuracy	±10 % of Rd
Frequency	
Measurement range up to	0 ... 200 kHz
Resolution	0,001 kHz
Accuracy	±10 % of Rd
Oscilloscope specifications	
Number of channels	1
Bandwidth	200 kHz
Measuring functions	MIN, MAX, RMS, Peak-peak, AVG
Sampling rate	2,5 MS/s
Max. input voltage	400 V
Time base	10µs / 500s
Vertical sensitivity	X1: 10 mV/Div ... 10 V/Div, X10: 100 mV/Div ... 100 V/Div

General technical data	
Display type	TFT colour display
Display size	2,8 Inch
Automatic power-off	30 min
Trigger input	Mode: Auto, Normal, Single
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	1 x 3,7 V internal , lithium
Capacity	1000 mAh
Operating conditions	0 ... 50 °C , 0 ... 90 % RH
Storage conditions	0 ... 50 °C , 0 ... 90 % RH
Dimensions (L x W x H)	73 x 105 x 21 mm
Weight	107 g