

# USB PC OSCILLOSCOPE AND SIGNAL GENERATOR – PCSU200



## Features

- function generator:
  - crystal-based stability
  - standard waveforms: sine, square and triangle
  - predefined library waveforms included:  $\text{sine}(x)/x$ , sweep, ...
- oscilloscope:
  - auto set-up function and X10 option
  - pre-trigger function
  - readouts: True RMS, dBV, dBm, p to p, Duty cycle, Frequency...
  - persistence options: colour graded, variable and infinite
- transient recorder:
  - automatic storage of data
  - automatic recording for more than 1 year
  - record and display of screens
- bode plotter:
  - automated sync between oscilloscope and generator
  - logarithmic scale option
  - Volt or dB display scale
  - phase plot option
- spectrum analyser:
  - linear or logarithmic timescale
  - operating principle: FFT (Fast Fourier Transform)
  - FFT input channel: CH1 or CH2
  - zoom function
- in the box:
  - getting started manual
  - USB PC Scope+generator unit
  - USB cable

## Specifications

- general:
  - markers for: amplitude/voltage and frequency/time
  - input coupling: DC, AC and GND
  - supply from USB port (500mA)
  - dimensions: 100 x 100 x 35mm / 3.9 x 3.9 x 1.4"
- function generator:
  - amplitude range: 200mVpp to 8Vpp @ 1KHz// no load
  - vertical resolution: 8 bits
  - square wave rise/fall time: 0.3µs
  - sample rate: 25MHz
  - typical sine wave distortion (THD): < 1%
  - output impedance: 50ohm
  - frequency range: from 0.5Hz to 500KHz (sine 1MHz)
- oscilloscope:
  - bandwidth: two channels DC to 12 MHz ±3dB
  - input impedance: 1 Mohm / 30pF
  - maximum input voltage: 30V (AC + DC)
  - time base: 0.1µs to 500ms per division
  - input range: 10mV to 3V/division
  - input sensitivity: 0.3mV display resolution
  - record length: 4K samples / channel
  - sampling frequency: 250Hz to 25MHz
- transient recorder:
  - timescale: 20ms/Div to 2000s/Div
  - max record time: 9.4hour/screen
  - max. number of samples: 100/s
  - min. number of samples: 1 sample/20s
- bode Plotter:
  - voltage range: 10mV, 30mV, 0.1V, 0.3V, 1V, 3V
  - frequency range: 1Khz , 10Khz, 100Khz, 500Khz
  - Frequency start: 1Hz,10Hz, 100Hz, 1Khz, 10Khz, 100Khz
- spectrum analyser:
  - frequency range: 0 .. 120Hz to 12MHz
  - FFT resolution: 2048 lines
- minimum system requirements:
  - IBM compatible PC
  - Windows™ XP, Vista, 7 \*
  - SVGA display card (min.1024 x 768)
  - mouse
  - free USB port 1.1 or 2.0