

FEATURES

- PC USB Digital Oscilloscope
- 4 channels
- 70MHz bandwidth
- 1GSa/s real time sampling rate.
- 2mV-10V/DIV input sensitivity
- USB 2.0 interface, no external power required.
- Pass/fail test, resourceful trigger function, dynamic cursor tracking.
- OS: Windows 7, Windows 8, Windows 10.

RS PRO Oscilloscopes

RS Stock No.: 2205864, 2206155, 2206156, 2206157, 2206158, 2206160, 2206161, 2205865, 2206162, 2206163, 2206164, 2206166, 2206167, 2206168, 2205866, 2206169, 2206170, 2206172, 2206173, 2206174, 2206175, 2205867, 2206176, 2206177, 2206178, 2206179, 2206180, 2206181



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

PC USB Oscilloscope

70MHz bandwidth with 4 channels.

- 1GSa/s real time sampling rate.
- 2mV-10V/DIV input sensitivity
- USB 2.0 interface, no external power required.
- Pass/fail test, resourceful trigger function, dynamic cursor tracking.
- OS: Windows 7, Windows 8, Windows 10.
- Support second development, with labview, VB, VC SDK.

General Specifications

Series	6004BC Series
Model Number	6074BC
Oscilloscope Type	PC Based
Bandwidth	70MHz
Analogue Channels	4
Sampling Type	Real Time
Sampling Mode	Sampling, Peak Detection, Average
Average Time	2, 4, 16, 32, 64, 128
Standard Interfaces	USB
Calibration Available	Yes

Input System

Input Coupling	AC, DC, GND
Input impedance	1M Ω \pm 2%. 25pf \pm 3pf
Probe attenuator	1X, 10X
Probe attenuator Factor Set	1X, 10X, 20X, 100X, 1000X, 10000X
Input Sensitivity	2 mV/div to 10 V/div
Input Channel Connectors Type	BNC
Over voltage Protection	400V (DC+AC Peak)

Vertical System

Maximum Vertical Sensitivity	2mV/div
Minimum Vertical Sensitivity	10V/div
Vertical Resolution	8 bit
DC Gain Accuracy	±3%
Rise Time	≤5ns
Math Operation	+, -, *, /, FFT
FFT	Window Mode: Hanning, Hamming, Blackman, Rectangular

Horizontal System

Real Time Sampling Rate	1GSa/s Max.
Memory Depth	64K for single channel, 32K for 2 channels, 16K, 8K, 4K for 4 channels
Measure Display Mode	YT, X-Y
Time Base Range	2ns/div to 1000s/div (1-2-5 sequences)

X-Y Mode

X-Pole Input / Y-Pole Input	Channel 1 (CH1), Channel 2 (CH2)
Phrase Shift	Max.3 degree

Measurement System

Auto Measure	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vmid, Mean, RMS, Cycle Mean, Positive Overshoot, Negative Overshoot, Period, Frequency, Rise time, Fall time, + Duty Cycle, -Duty Cycle, + Pulse Width, - Pulse Width
Cursor Measure	Manual, Track

Trigger Specifications

Trigger Type	Edge, Pulse Width, Video, CAN, LIN, UART, SPI, IIC, ALT
Trigger Source	CH1, CH2, CH3, CH4
Trigger Modes	Auto, Normal, Single
Trigger Sensitivity	0.02 div increments
Edge Trigger	Edge Type: Rising, Falling
Pulse Width Trigger	Trigger Mode: Positive, Negative Pulse width Range : 10ns - 2s

Video Trigger	Support Signal Format: PAL/SEC, NTSC Trigger Condition : all lines, line number, odd field, even field, all field
CAN Trigger	Baud Rate (bps): 10k, 20k, 33.3k, 50k, 62.5k, 83.3k, 100k, 125k, 250k, 500k, 800k, 1000k Trigger Condition: start bit, remote frame, data frame ID, frame ID, data frame data, error frame, all error, acknowledge error, overload frame
LIN Trigger	Baud Rate (bps): 110, 300, 600, 1.2k, 2.4k, 4.8k, 9.6k, 14.4k, 19.2k, 38.4k, 57.6k, 115.2k, 230.4k, 380.4k, 460.4k, 921.6k Trigger Condition: interval field, sync field, ID field, sync code, ID, ID & Data
UART Trigger	Baud Rate (bps): 110, 300, 600, 1.2k, 2.4k, 4.8k, 9.6k, 14.4k, 19.2k, 38.4k, 57.6k, 115.2k, 230.4k, 380.4k, 460.4k, 921.6k Trigger Condition: start bit, stop bit, data, parity error, reception error Parity: no, odd, even Data Bits: 4, 5, 6, 7, 8
SPI Trigger	Data format: Hex Data Bits: 4, 8, 16, 24, 32
IIC Trigger	Trigger Condition: start bit, stop bit, no ack, address, restart, address & data
ALT Trigger	Type: edge, pulse, video

Control Panel Function

Auto Set	Auto adjusting the Vertical system, Horizontal system and Trigger Position
Save/Recall	Available
Reference Wave	Available
Recorder	Available
Pass/Fail	Available

Display System

Display Mode	No LCD, display on computer
Waveform Display Mode	Dot, Vector
Language	English, Chinese, Dutch, French, German, Italian, Korean, Polish, Russian, Spanish

Electrical Specifications

Operating Supply Voltage	5V
Current Consumption	1A

Mechanical Specifications

Dimensions	206 x 120 x 35 mm
Length	206mm
Width	120mm
Height	35mm
Weight	457g

Approvals

Compliance/Certifications	CE
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Accessories Includes

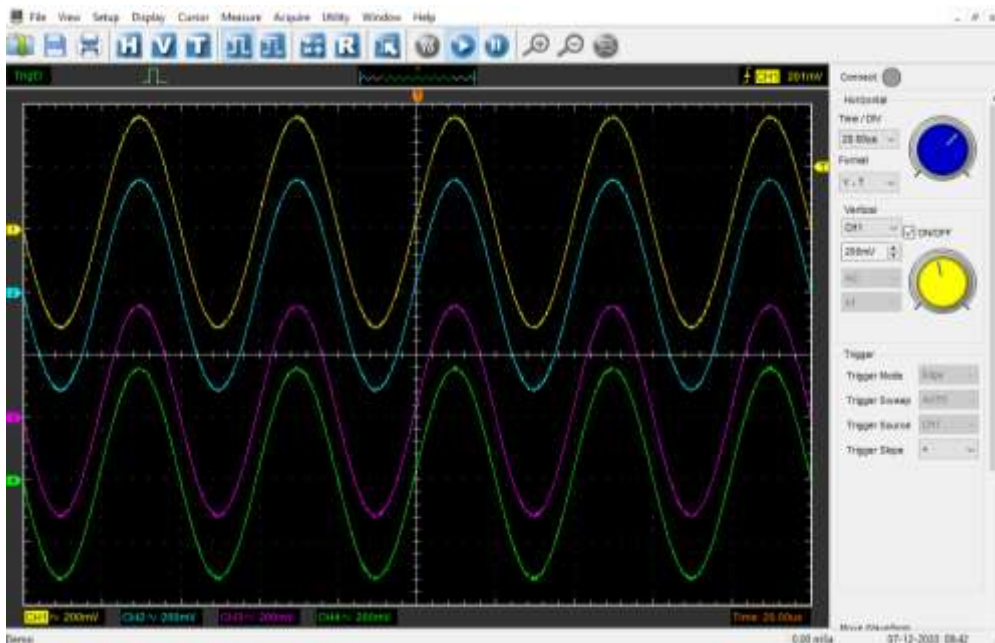
Stock #	Item Name	Item Description	Qty
	USB Cable	USB 2.0 2 male to Mini USB cable cable length: 1M (approx.)	1
PP80	Passive Probe	60MHz bandwidth, x1 & x10	2
HT324	Gator Clip Cable	It's about 1 meter in length with a red clip and a black clip. It can be plugged into the 4 mm connectors at the end of the cable.	2
	CD	A software installation CD and it contains the user manual for the oscilloscope.	1

Additional Built-in Functionality

PRODUCT DIMENSION DRAWING / APPLICATION EXAMPLES



Software Interface on PC



Similar Products

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Model Number	6074BC	6104BC	6204BC	6254BC
Bandwidth	70MHz	100MHz	200MHz	250MHz
Rise Time	≤5ns	≤3.5ns	≤1.8ns	≤1.4ns
Input Impedance	1MΩ±2%, 25pf±3pf			
Real Time Sampling Rate	1GSa/s Max.			
Time Base Range	2 ns/ div~1000s/ div (1-2-5 sequences)			
Vertical Sensitivity	2mV/div~10V/div (1-2-5 step)			
Vertical Resolution	8 bits			
Trigger Types	Edge, Pulse Width, Video, CAN, LIN, UART, SPI, IIC, ALT			
Interface	USB Host			
Math	+, -, *, /, FFT			