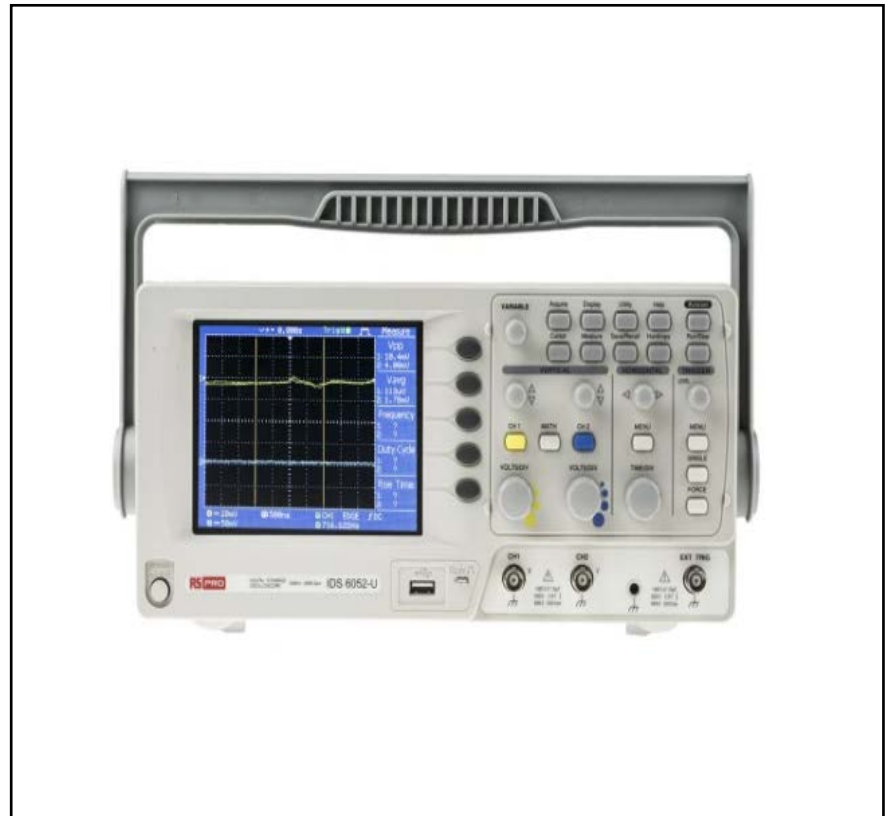


## FEATURES

- 19 auto measurements
- Data logger
- Peak detect as fast as 10 ns
- 5.7in TFT colour display

# RS PRO IDS6052U Oscilloscope, Digital Storage, 2 Channels, 50MHz

RS Stock No.: 123-3538



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

The RS PRO IDS-6052-U is a general purpose 2-channel Digital Storage Oscilloscope. This instrument has many great features including a user-friendly menu tree operations, compact size, ergonomic design, USB host for PC connectivity and USB device port support.

## General Specifications

<b>Series</b>	IDS-6000-U
<b>Model Number</b>	IDS6052U
<b>Oscilloscope Type</b>	Digital Storage
<b>Bandwidth</b>	50MHz
<b>Sampling Type</b>	Real Time, Equivalent
<b>Sampling Mode</b>	Sampling, Peak Detection, Average
<b>Average Time</b>	2, 4, 16, 32, 64, 128, 256
<b>Standard Interfaces</b>	USB
<b>Calibration Available</b>	Yes
<b>Applications</b>	Laboratories, Educational establishments, Product testing and Quality Assurance, Service operation and post-sales support, Product development and debugging

## Input System

<b>Input Coupling</b>	AC, DC, GND
<b>Input impedance</b>	1M $\Omega$ $\pm$ 2%, ~15pF
<b>Maximum Input Voltage</b>	300V (DC+AC peak), CATII
<b>Input Sensitivity</b>	2mV/div ~ 10V/div (1-2-5 increments)

### Vertical System

Maximum Vertical Sensitivity	2mV/div
Minimum Vertical Sensitivity	10V/div
Vertical Resolution	8 bit
DC Measurement Accuracy ( $\leq 200\text{mV/div}$ )	$\pm(3\% \times  \text{Readout}  + 0.1 \text{ div} + 1\text{mV})$
Rise Time	$\leq 7\text{ns}$
Channel Voltage Offset Range	2mV/div ~ 50mV/div : 0.4V ; 100mV/div ~ 500mV/div : 4V ; 1V/div ~ 5V/div : 40V ; 10V/div : 300V
Math Operation	+, -, FFT

### Horizontal System

Real Time Sampling Rate	1GSa/s
Memory Depth	4kpts
Measure Display Mode	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y
Time Base Range	1ns/div to 50s/div
Horizontal Scan Rate	50ms/div ~ 50s/div

### X-Y Mode

X-Pole Input / Y-Pole Input	Channel 1 (CH1), Channel 2 (CH2)
Sample Frequency	25KSa/s ~ 250MSa/s

### Measurement System

Auto Measure	Vpp, Vmax, Vmin, Vamp, Voi, Vhi, Vavg, Vrms, Rise Preshoot / Overshoot, Fall Preshoot/Overshoot pp amp avg rms hi lo max min Freq , Period , Rise Time , Fall Time , Positive Width , Negative Width , Duty Cycle
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### Trigger Specifications

<b>Trigger Source</b>	CH1, CH2, Line, EXT
<b>Trigger Modes</b>	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width
<b>Trigger Coupling</b>	AC, DC, LF reject, HF reject. , Noise reject
<b>Trigger Sensitivity</b>	DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 70/100/150MHz: Approx. 1.5div or 15mV

### Control Panel Function

<b>Auto Set</b>	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically
<b>Save/Recall</b>	Up to 15 sets of measurement conditions

### Display System

<b>Display Mode</b>	5.7 inch TFT colour LCD
<b>Resolution</b>	320 horizontal by 234 vertical pixels
<b>Waveform Display Range</b>	8 x 12 div

### Electrical Specifications

<b>Operating Supply Voltage</b>	AC 100V ~ 240V , 48Hz ~ 63Hz , Auto selection
<b>Plug type</b>	Europe, UK
<b>Safety Category Level and Voltage</b>	CAT II 300V

### Mechanical Specifications

<b>Dimensions</b>	140mm x 310mm x 142mm
<b>Length</b>	140mm
<b>Width</b>	310mm
<b>Height</b>	142mm
<b>Weight</b>	2.5kg

## Approvals

<b>Compliance/Certifications</b>	EN61340, CE
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<b>ORDERING INFORMATION</b>
IDS-6052-U 50MHz, 2-channel, Color LCD Display DSO
<b>ACCESSORIES</b>
User Manual x 1, Power Cord x 1 Probe-GTP-070A-4 : 70MHz(10:1/1:1)Switchable Passive Probe for IDS-6052-U(one per channel)

<b>OPTIONAL ACCESSORIES</b>
GTL-242 USB Cable, USB 1.1 A-B TYPE CABLE, 4P
GTL-110 Test Lead, BNC-BNC Heads
GSC-006 Soft Carrying Case
<b>FREE DOWNLOAD</b>
PC Software FreeWave software
Driver USB driver LabView Driver