FEATURES

- **Go/NoGo Function**

- **Digital Voltage Meter Function**

- **Data Log Function**

- **Zero key function**

- **Compact and innovative design**

- **Zoom In/Play and Pause function**

RS PRO IDS1074B Oscilloscope, Digital Storage, 4 Channels, 70MHz

RS Stock No.: 123-3544

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

RS PRO IDS-1000B Series Digital Storage Oscilloscopes (DSO) are general purpose instruments which include exceptional features for a great-value price. They are equipped with Visual Persistence Oscilloscope (VPO) technology. This uses a high-density IC for hardware acceleration to transfer all the acquired data into the displayed waveform image. The 256 colour gradient display function shows waveform details in gradients while measuring fast-changing analogue signals.

Options available:

1233540 - 50 MHz, 4 Channels

1233541 - 70 MHz, 2 Channels

1233542 - 100 MHz, 2 Channels

1233543 - 100 MHz, 4 Channels

1233544 - 70 MHz, 4 Channels

General Specifications

Series	IDS-1000B
Model Number	IDS1074B
Oscilloscope Type	Digital Storage
Bandwidth	70MHz
Sampling Type	Real time sampling
Sampling Mode	Normal, Average, Peak Detect, Single
Average Time	2 to 256 selectable
Standard Interfaces	USB, RS232, SPI
Additional Interfaces	LAN
Calibration Available	Yes
Applications	Laboratories, Educational establishments, Product testing and Quality Assurance, Service operation and post-sales support, Product development and debugging

Oscilloscopes

Input System

Input Coupling	AC, DC, GND
Input impedance	1MΩ 16pf
Maximum Input Voltage	300Vrms
Input Sensitivity	1mV/div to 10V/div
Input Channel Connectors Type	BNC

Vertical System

Maximum Vertical Sensitivity	1mV/div
Minimum Vertical Sensitivity	10V/div
Vertical Resolution	8 bit
DC Gain Accuracy	≤±3%
Rise Time	5ns
Channel Voltage Offset Range	1mV/div : ±1.25V ; 2mV/div ~ 100mV/div : ±2.5V ; 200mV/div ~ 10V/div : ±125V
Math Operation	+, -, * , /, FFT
FFT	Window Mode: Hanning, Hamming, Blackman, Rectangular Sampling: 1024 points

Horizontal System

Real Time Sampling Rate	1GSa/s
Memory Depth	10Mpts Max.
Measure Display Mode	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y
Time Base Range	5ns/div to 100s/div
Horizontal ROLL Rate	100ms/div to 100s/div
Realtime Waveform Acquisition Rate	50000 waveforms/s

X-Y Mode

X-Pole Input / Y-Pole Input	(CH1) (CH3) / (CH2) (CH4)

Oscilloscopes

Measurement System

Auto Measure	Pk-Pk, Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Amplitude, Mean, Crms, Vrms, ROVShoot, FOVShoot, RPREShoot, FPREShoot, Rise time, Fall time, Freq, Period, ＋Wid,－Wid,＋Dut,－Dut, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase
Cursor Measure	Manual, Track and Auto

Trigger Specifications

Trigger Type	Edge, Pulse Width, Video, Pulse Runt, Rise & Fall, Timeout, Alternate, Event-Delay, Time-Delay, Bus
Trigger Source	CH1, CH2, CH3, CH4, EXT, Line
Trigger Modes	Auto, Normal, single
Trigger Coupling	AC, DC, LF Reject, HF Reject
Trigger Displacement	Pre Trigger: 10 div maximum Delay Trigger: 2,000,000 div
Trigger Sensitivity	1 div EXT: DC ~ 100MHz Approx. 100mV ; 100MHz ~ 200MHz Approx. 150mV
Hold-off Range	4ns – 10s

Control Panel Function

Auto Set	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset
Save/Recall	20set

Display System

Display Mode	7" TFT WVGA color display
Resolution	800 horizontal ✕ 480 vertical pixels
Display Colour	256 Colour
Waveform Display Range	8 x 10 div
Waveform Display Mode	Dots, vectors
Persistence	Off, 1 sec, 2 sec, 4sec, Infinite
Waveform Interpolation	Sin(x), x
Colour model	Normal , Invert

Electrical Specifications

Operating Supply Voltage	AC 100V ~ 240V , 50Hz ~ 60Hz , Auto selection
Plug Type	Europe, UK
Safety Category Level and Voltage	CAT I 300 V, CAT II 300 V

Mechanical Specifications

Dimensions	127.3mm x 208mm x 380mm
Length	127.3mm
Width	208mm
Height	380mm
Weight	2.8kg

Operation Environment Specifications

Relative Humidity	< 80%
Operating Temperature Range	0℃ to 50℃

Approvals

Compliance/Certifications	EN61340, CE

ORDERING INFORMATION

IDS-1104B	100MHz, 4 channels, Digital Storage Oscilloscope
IDS-1102B	100MHz, 2 channels, Digital Storage Oscilloscope
IDS-1074B	70MHz, 4 channels, Digital Storage Oscilloscope
IDS-1072B	70MHz, 2 channels, Digital Storage Oscilloscope
IDS-1054B	50MHz, 4 channels, Digital Storage Oscilloscope

ACCESSORIES

User manual x1, Power cord x1

GTP-101A-2 100MHz Passive Probe, 10:1, Suitable for IDS-1000B full series.

OPTIONAL ASSESSORIES

GDB-03	Demo Board
GTL-110	Test lead, BNC to BNC heads
GTL-246	USB cable, USB 2.0 A-B type cable 4P, 1200mm

FREE DOWNLOAD

Software	OpenWave Software
Driver	USB Driver ; LabView Driver