

FEATURES

- I²C/SPI/UART/CAN/LIN serial bus trigger
- Digital Filter Function
- Data Log Function
- Network storage function
- VPO waveform display
- Segmental waveform

RS PRO IDS2204E Oscilloscope, Digital Storage, 4 Channels, 200MHz

RS Stock No.: 123-3553



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-2000E Series Digital Storage Oscilloscopes (DSO) offer features normally only available on much higher-priced scopes or as expensive add-ons. The models 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. RS Pro IDS-2000E Series can clearly display complex and random waveforms using its 8 inch 800 x 400 16:9 TFT LCD display and maximum 1 mV/div vertical range.

Options available:

1241956 - 200 MHz, 2 Channels

1233553 - 200 MHz, 4 Channels

1233552 - 100 MHz, 4 Channels

1241955 - 100 MHz, 2 Channels

1240233 - 70 MHz, 4 Channels

1233551 - 70 MHz, 2 Channels

General Specifications

Series	IDS-2000E
Model Number	IDS2204E
Oscilloscope Type	Digital Storage
Bandwidth	200MHz
Sampling Type	Real time sampling
Sampling Mode	Normal, Average, Peak Detect, Single
Average Time	2 to 256 selectable
Standard Interfaces	USB, RS232, SPI, UART, CAN
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

Input System

Input Coupling	AC, DC, GND
Input impedance	1M Ω 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% when 2mV/div or greater is selected ; (5%) when 1mV/div is selected
Rise Time	1.75ns
Channel Voltage Offset Range	1mV/div ~ 20mV/div : 0.5V ; 50mV/div ~ 200mV/div : 5V ; 500mV/div ~ 2V/div : 25V ; 5V ~10V/div : 250V
Math Operation	+, -, * , /, FFT
FFT	Window Mode: Hanning, Hamming, Blackman, Rectangular

Horizontal System

Real Time Sampling Rate	1GSa/s
Memory Depth	1Mpts
Measure Display Mode	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y, Y-T
Time Base Range	1ns/div to 100s/div
Horizontal ROLL Rate	100ms/div to 100s/div
Realtime Waveform Acquisition Rate	120000 waveforms/s

X-Y Mode

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

Auto Measure	Pk-Pk, Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Amplitude, Mean, Crms, Vrms, ROVShoot, FOVShoot, RPREShoot, FPRESShoot, 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 Auto set
Save/Recall	20set

Display System

Display Mode	8" TFT WVGA color display
Resolution	800 horizontal x 480 vertical pixels
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 , 48Hz ~ 63Hz , 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 384mm
Length	127.3mm
Width	208mm
Height	384mm
Weight	2.8kg

Operation Environment Specifications

Relative Humidity	< 80%
Operating Temperature Range	0°C to 50°C

Approvals

Compliance/Certifications	EN61340, CE
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ORDERING INFORMATION

IDS-2204E	200MHz, 4-Channel, Digital Storage Oscilloscope
IDS-2202E	200MHz, 2-Channel, Digital Storage Oscilloscope
IDS-2104E	100MHz, 4-Channel, Digital Storage Oscilloscope
IDS-2102E	100MHz, 2-Channel, Digital Storage Oscilloscope
IDS-2074E	70MHz, 4-Channel, Digital Storage Oscilloscope
IDS-2072E	70MHz, 2-Channel, Digital Storage Oscilloscope

ACCESSORIES

Quick start guide , User manual CD x 1, Power cord x 1
 GTP-070B-4 : 70MHz(10:1/1:1) Switchable passive probe for IDS-2072E/2074E(one per channel)
 GTP-150B-4 : 150MHz(10:1/1:1) Switchable passive probe for IDS-2102E/2104E(one per channel)
 GTP-300B-4 : 300MHz(10:1/1:1) Switchable passive probe for IDS-2202E/2204E(one per channel)

OPTIONAL ACCESSORIES

GDB-03	Oscilloscope Education & Training Kit	GCP-020	Current Probe, DC – 100kHz, 10A, Current Probe
GCP-005	Current Probe, 40Hz – 1kHz, 5A, Current Probe	GCP-100	Current Probe, 40Hz – 10kHz, 20A, Current Probe
GRA-420	Rack Adapter Panel	GCP-1030	Current Probe, DC – 100MHz, 30Arms, Current probe
GAK-003	50Ω Impedance Adapter	GCP-206P	Current Probe - Power Supply 2 Channel Power Supply for GCP-530/1030
GSC-008	Soft Carrying Case	GCP-245P	Current Probe - Power Supply 4 Channel Power Supply for GCP-530/1030
GTL-232	RS-232C Cable, 9-pin, F-F Type, null modem, 2000mm	GCP-530	Current Probe, DC – 50MHz, 30Arms, Current Probe
GTL-246	USB Cable, USB 2.0, A-B Type, 1200mm	GDP-025	Differential Probe, 25M High Voltage Differential Probe
GTL-248	GPIB Cable, Double Shielded, 2000mm	GDP-050	Differential Probe, 50M High Voltage Differential Probe
GTL-251	USB-GPIB Adapter, GPIB-USB-HS, USB 2.0, Hi-Speed USB compliance, 2000mm	GDP-100	Differential Probe, 100M High Voltage Differential Probe
		GTP-033A	Oscilloscope Probe, 35MHz 1:1 Passive Probe, BNC(P/M)

FREE DOWNLOAD

PC Software	OpenWave software	Driver	USB driver ; LabView driver
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