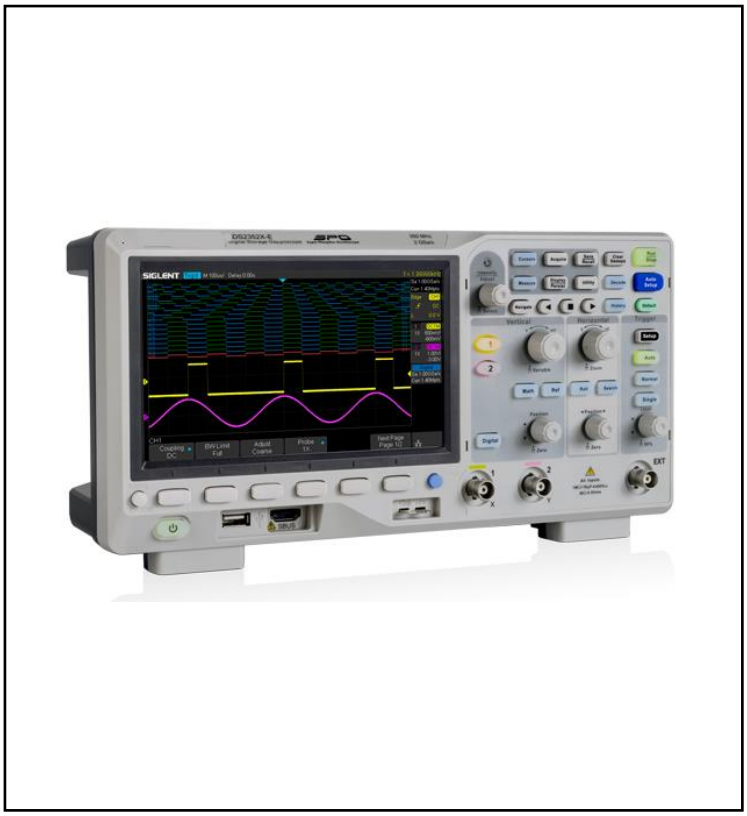
FEATURES

- Intelligent triggers:Edge, Slope, Pulse Width, Window, Runt, Interval,Time out (Dropout), Pattern
- Serial bus triggering and decoding (standard), supports protocols IIC, SPI, UART, CAN, LIN
- 10 types of one-button shortcuts, supports Auto Setup, Default, Cursors, Measure, Roll, History, Display/Persist, Clear Sweep, Zoom and Print
- 1 Mpt FFT

RS PRO Oscilloscopes

RS Stock No.: 2368985



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

It is a type of electronic test instrument that graphically displays varying signal voltages, usually as a calibrated two-dimensional plot of one or more signals as a function of time. The displayed waveform can then be analyzed for properties such as amplitude, frequency, rise time, time interval, distortion, and others. Originally, calculation of these values required manually measuring the waveform against the scales built into the screen of the instrument.

General Specifications

Series	
Model Number	
Oscilloscope Type	Super Phosphor Oscilloscope
Bandwidth	350MHz
Low Frequency	
Analogue Channels	2
Digital Channels	16(option)
Sampling Type	
Sampling Mode	Normal, Peak Detect, Average, Eres
Average Time	4, 16, 32. 64, 128, 256, 512, 1024
Waveform Refresh Rate	110,000 wfm/s(normal mode), 400,000wfm/s(sequence mode)
Standard Interfaces	USB Host, USB Device(USBTMC), LAN, Pas/Fail, Trigger Out
Additional Interfaces	
Calibration Available	

Input System

Input Coupling	AC, DC, GND
Input impedance	DC1MΩ: (1MΩ±2%)II(18pF ±2pF) DC50Ω: 50Ω±2%
Probe attenuator	1X, 10X
Probe attenuator Factor Set	0.1X, 0.2X, 0.5X, 1X, 2X, 5X, 10X……1000X, 2000X, 5000X, 10000X
Maximum Input Voltage	1MΩ： ≤ 400Vpk(DC + Peak AC <=10kHz) 50Ω： ≤ 5Vrms
Input Sensitivity	500 µV/div to 10 V/div(1-2-5 sequence)
Channel to Channel Isolation	DC ~ MAX BW: > 40 dB
Single Channel Common Mode Rejection Ratio	

Threshold selection	
Input Channel Connectors Type	BNC,
Over voltage Protection	Support

Vertical System

Maximum Vertical Sensitivity	500 μV/div
Minimum Vertical Sensitivity	10 V/div
Vertical Resolution	8 bit
DC Gain Accuracy	⩽ ± 3.0%: 5 mV/div-10 V/div ⩽ ± 4.0%: ⩽ 2 mV/div
Offset Accuracy (≤1mv/div)	± (1% * Offset + 1.5% * 8 * div + 500 uV)
Offset Accuracy (≥2mv/div)	± (1% * Offset + 1.5% * 8 * div + 2 mV):
Rise Time	1.0 ns(Typical)
Channel Voltage Offset Range(Probe 1X)	500μV ~ 100mV: ± 2V 102mV ~ 1V: ± 20V 1.02V ~ 10V: ± 200V
Math Operation	+ , - , * , / , FFT, d/dt, ∫ dt, √
FFT	Window Mode: Rectangular, Blackman, Hanning, Hamming, Flattop Sampling: 1M points
Channel-to-channel skew	< 100ns
Minimum input slew rate	

Horizontal System

Sampling Rate	Single Channel: Max 2GSa/s Double Channels: Max 1GSa/s
Interaction Mode	Sinx/x, Liner
Memory Depth	14 Mpts/CH (not interleave mode) 28 Mpts/CH (interleave mode)
Measure Display Mode	Y-T, X-Y, Roll
Time Base Range	500 ps/div to 100 s/div
Horizontal Scan Rate	50ms/div～100s/div(1-2-5 sequence)
Realtime Waveform Acquisition Rate	110,000 wfm/s

X-Y Mode

X-Pole Input / Y-Pole Input	Channel 1 (CH1), Channel 2 (CH2)
Sample Frequency	10KSa/s～1GSa/s (1-2.5-5 step)

Measurement System

Auto Measure	Vertical(Voltage): Max, Min, Pk-Pk, Ampl, Top, Base, Mean, Cmean, Stdev, Cstd, VRMS, Crms, FOV, FPRE, ROV, RPRE, Level@X Horizontal(Time): Period, Freq, +Wid, -Wid, Rise Time, Fall Time, Bwid, +Dut, -Dut, Delay, Time@Level Delay: Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Skew
Cursor Measure	Manual, Track

Trigger Specifications

Trigger Type	Edge, Slope, Pulse, Video, Window, Interval, Dropout, Runt, Pattern, Serial
Trigger Source	CH1, CH2, EXT, EXT/5, AC Line
Trigger Modes	Auto, Normal, single
Trigger Coupling	AC, DC, LF Reject, HF Reject, Noise Reject
Trigger Level Range	Internal: ±4.5 div from the center of the screen EXT: ±0.6 V EXT/5: ±3 V
Trigger Displacement	Pre-Trigger: 0 - 100% Memory Delay Trigger: 0 to 10,000 div
Trigger Sensitivity	DC - Max BW 0.6 div EXT: 200 mVpp DC – 10 MHz 300 mVpp 10 MHz - BW frequency (External 50 Ω) EXT/5: 1 Vpp DC – 10 MHz 1.5 Vpp 10 MHz -BW frequency (External 50 Ω)
Hold-off Range	80 ns - 1.5 s
Edge Trigger	Edge Type: Rising, Falling, Rising and Falling
Pulse Trigger	Polarity: +wid , -wid Pulse Range: 2 ns - 4.2 s
Video Trigger	Signal Standard: NTSC, PAL, 720p/50, 720p/60, 1080p/50, 1080p/60, 1080i/50, 1080i/60, Custom Trigger Condition : Line, Field
Slope Trigger	Rising, Falling

Control Panel Function

Auto Set	Auto adjusting the Vertical system, Horizontal system and Trigger Position
Save/Recall	Save: Setups, Reference, BMP, JPG, PNG, Binary, CSV, MATLAB, To Default Key Recall: Setups, Reference, Factory Default, Security Erase

Display System

Display Mode	7 inch TFT LCD
Resolution	800 × 480 pixels
Display Colour	24 bits
Display Contrast	500:1
Backlight Intensity	300nit
Waveform Display Range	8 x 14 div
Waveform Display Mode	Dot, Vector
Persistence	Off, 1 Sec, 5 Sec, 10 Sec, 30 Sec, Infinite
Screen-Saver	1 min, 5 min, 10 min, 30 min, 1 hour, Off
Waveform Interpolation	Sinx/x, x
Colour model	Normal , Cllour
Language	Simplified Chinese, Traditional Chinese, English, French, Japanese, Korean, German, Russian, Italian, Portuguese
Intensity Gradation	256 Levels

Electrical Specifications

Input Voltage	100 - 240 Vrms (± 10%), 50 / 60 Hz 100 - 120 Vrms (± 10%), 400 Hz
Power	500W Max

Mechanical Specifications

Dimensions	
Length	312 mm
Width	132.6 mm
Height	151 mm
Weight	N.W: 2.6 kg; G.W: 3.8 kg

Operation Environment Specifications

Altitude	Operating: ≤3000 m Non-operating: ≤15,266 m
Humidity	Operating: 85% RH, 40℃ , 24 hours Non-operating: 85% RH, 65℃ , 24 hours
Operating Temperature Range	Operating: 10℃ ~ +40℃
Storage Temperature Range	Non-operating: -20℃ ~ +60℃
Installation Level	

Additional Information

EAN	
Custom Tariff Number	

Classification

eCl@ss Version	
UNSPSC Version	
ETIM Version	

Approvals

Compliance/Certifications	LVD IEC 61010-1:2010 EMC EN6 1326-1:2013
Declarations	
Hazardous Area Certification	

Accessories Includes

Stock #	Item Name	Item Description	Qty
	Power Cord	**Power Cord**	**1**
	USB Cable	**USB Cable**	**1**
	Quick Start Guide-	**Quick Start Guide-**	**1**
	Passive Probes	**Passive Probes**	**2**
	CD	**CD**	**1**

Additional Built-in Functionality

Multimeter

Maximum Resolution	
Measure Function	
Max Input Voltage	
Max Input Current	
Impedance	

Recorder

Scope Trend Plot	
Record Size	
Record Channel	
Cursor, Zoom	
Manual Mode	

Meter Trend Plot	
Display	
Record Size	
Record Channel	
Cursor, Zoom	
Manual Mode	

PROUCT DIMENSION DRAWING / APPLICATION EXAMPLES

Ordering Information

Designation	Type	Stock #
Optional Accessories		
Choose Probes		
Choose Accessories		

Similar Products

Stock No.	RS#	RS#	RS#	RS#
Model Number				
Bandwidth				
Rise Time				
Input Impedance				
Real Time Sampling Rate				
Equivalent Sampling Rate				
Time Base Range				
Scan Range				
Vertical Sensitivity				
Vertical Resolution				
Trigger Types				
Frequency Counter				
Interface				
Math				
Oscilloscope Trend Plot				