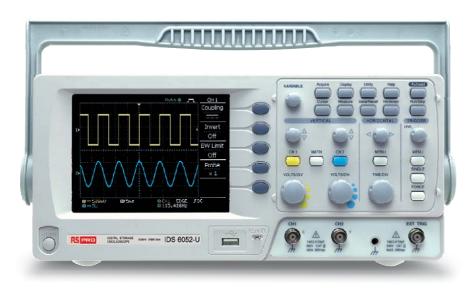




Datasheet 50MHz Digital Storage Oscilloscope

Stock No.: Model: 123-3538 IDS-6052-U





FEATURES

- 50 MHz Bandwidth, 2 Input Channels
- 250MSa/s Real-Time & 25GSa/s Equivalent-Time Sampling Rate
- 4k Record Length per Channel
- Save/Recall of 15 Front Panel Settings & Waveforms
- 5.7" Color TFT LCD Display
- 19 Auto Measurements
- Math Function: Add, Subtract, FFT
- USB Host & Device Ports
- Go/NoGo Function
- Data Logger





IDS-6052-U is a general purpose 2-channel oscilloscope designed to meet diversified educational demands and basic industrial requirements. This series provides bandwidths ranging from 50MHz. Together with intuitive human machine interface design and 5.7 inch color TFT LCD, IDS-6052-U allows users to enjoy better measurement experiences.

IDS-6052-U offers dual sampling modes, 250MSa/s Real-Time and 25GSa/s Equivalent sampling rates, giving users a more flexible option to process incoming signals. With fast waveform process capability, more advanced triggering functions, and 2.5Kg light-weight design, IDS-6052-U is a very capable oscilloscope to enhance users' returns on their investments in terms of price versus performance. IDS-6052-U is also viewed as a replacement of analog oscilloscope. With its good functionality and capability, IDS-6052-U can satisfy diversified educational demands as well as fulfill industrial basic requirements in servicing, maintenance, or production.

IDS-6052-U also provides great accessibility through its USB Host and Device ports. Via USB Device port, user can easily build a remote control program to manipulate the machine. Via USB Host port, user is capable of not only storing data directly into flash disk for further analysis but also activating data logging function to monitor waveform data in designated time sequence.

Easy to use

Several acquisition mode and 19 auto measurement functions help user to measure the accurate property of waveforms. The advanced auto-set function makes IDS-6052-U catch waveform automatically and display waveform quickly. With arithmetic functions, FFT function keeps user being aware of the results by updating value immediately. Without almost extra-calculation IDS-6052-U can provide sufficient information of testing.

USB Host & USB Device supported

A total of 15 waveforms could be saved into the internal memory for later recall and display, and 2 saved reference waveforms plus 2 live waveforms could be shown on the screen at the same time for comparison. USB Host mass storage and USB device port are supported, providing storage/transfer of measurement data and remote control for diversified solutions.

APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging





SPECIFICATIONS	l	
		IDS-6052-U
VERTICAL	Channels Bandwidth Rise Time Sensitivity Accuracy Input Coupling Input Impedance Polarity Maximum Input Waveform Signal Process Offset Range Bandwidth Limit	2 DC~50MHz(-3dB) <7ns Approx. 2mV/div ~ 10V/div (1-2-5 increments) ±(3% x Readout + 0.1 div + 1mV) AC, DC & Ground 11M \(\Omega \pm 2 \pm 4, -15 \pm F \) Normal & Invert 300V (DC+AC peak), CATII +, -, FFT 2mV/div ~ 50mV/div: 0.4V; 10mV/div ~ 500mV/div: 4V; 1V/div ~ 5V/div: 40V; 10V/div: 300V 20MHz (-3dB)
TRIGGER	Sources Modes Coupling Sensitivity	CH1, CH2, Line, EXT AUTO, NORMAL, SINGLE, TV, Edge, Pulse width AC, DC, LF rej., HF rej., Noise rej. DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 50/70/100MHz: Approx. 1.5div or 15mV
EXT TRIGGER	Range Sensitivity Input Impedance Maximum Input	$15V$ DC \sim 25MHz : \sim 50mV ; 25M \sim 50/70/100MHz : \sim 15mV $1M\Omega-2\%$, \sim 16pF $300V$ (DC+AC peak) , CATII
HORIZONTAL	Range Modes Accuracy Pre-Trigger Post-Trigger	1ns/div ~ 50s/div (1-2.5-5 increments); ROLL: 50ms/div ~ 50s/div MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y 0.01% 10 div maximum 1000 div
X-Y MODE	X-Axis Input Y-Axis Input Phase Shift	Channel 1 Channel 2 3 at 100kHz
SIGNAL ACQUISITION	Real-Time Sample Rate Equivalent Sample Rate Vertical Resolution Record Length Acquisition Mode Peak Detection Average	250MSa/s maximum 25GSa/s maximum 8 Bits 4K Points maximum Normal, Peak Detect, Average 10ns(500ns/div ~ 50s/div) 2,4,8,16,32,64,128,256
CURSORS AND MEASUREMENT	Voltage Measurement Time Measurement Cursors Measurement Auto Counter	V_{pp} , V_{amp} , V_{awg} , V_{rms} , V_{hi} , V_{lo} , V_{max} , V_{min} , Rise Preshoot/Overshoot, Fall Preshoot/Overshoot Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle Voltage difference between cursors (Δ T) Resolution: 6 digits; Accuracy: 2% Signal Source: All available trigger source except the Video trigger mode
ADJUSTABLE PROBE COMPENSATION SIGNAL	Frequency Range Duty Cycle Range	1kHz ~ 100kHz, 1kHz/STEP 5% ~ 95%, 5%/STEP
CONTROL PANEL FUNCTION	Autoset Save Setup Save Waveform	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically Up to 15 sets of measurement conditions 15 sets of waveform
DISPLAY	TFT LCD Type Display Resolution Display Graticule Display Brightness	5.7 inch 234 (Vertically) x 320 (Horizontally) Dots 8 x 10 divisions Adjustable
INTERFACE	USB Device USB Host	USB1.1 & 2.0 full speed compatible Image (BMP) waveform data (CSV) and setup (SET)
POWER SOURCE	Line Voltage Range	AC 100V ~ 240V ,48Hz ~ 63Hz ,Auto selection
MISCELLANEOUS	Go/NoGo Function Data Logger Multi-Language Menu Online Help	Available Available Available Available
DIMENSIONS & WEIGHT	310(W) 142 (H) 140	(D)mm, Approx. 2.5kg Specifications subject to change without notice

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ORDERING INFORMATION

IDS-6052-U 50MHz, 2-channel, Color LCD Display DSO

ACCESSORIES

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)

OPTIONAL ACCESSORIES

GTL-242 GTL-110 USB Cable, USB 1.1 A-B TYPE CABLE, 4P Test Lead, BNC-BNC Heads

GSC-006 Soft Carrying Case

FREE DOWNLOAD



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