

150MHz/100MHz/70MHz DIGITAL STORAGE OSCILLOSCOPE



IDS-6000A-U is a general purpose 2-channel oscilloscope designed to meet diversified educational demands and basic industrial requirements. This series provides bandwidths ranging from 70MHz to 150MHz. Together with intuitive human machine interface design and 5.7 inch color TFT LCD, IDS-6000A-U allows users to enjoy better measurement experiences.

IDS-6000A-U Series offers dual sampling modes, 1GSa/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-6000A-U is a very capable oscilloscope to enhance users' returns on their investments in terms of price versus performance. IDS-6000A-U is also viewed as a replacement of analog oscilloscope. With its good functionality and capability, IDS-6000A-U can satisfy diversified educational demands as well as fulfill industrial basic requirements in servicing, maintenance, or production.

IDS-6000A-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 27 auto measurement functions help user to measure the accurate property of waveforms. The advanced auto-set function makes IDS-6000A-U Series 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-6000A-U Series 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.

IDS-6000A-U Series

FEATURES

- 150/100/70 MHz Bandwidth, 2 Input Channels
- 1GSa/s Real-Time and 25GSa/s Equivalent-Time Sampling Rate
- 2Mega Point Record Length
- 2mV~10V Vertical Scale
- 1ns~50s Horizontal Range
- Up to 27 Auto Measurements
- Versatile Math Function: +, -, x, /, FFT, FFTrms, Zoom FFT
- 5.7" Color TFT LCD Display
- USB Host & Device Ports
- Go/NoGo Function
- Data Logger

GDB-02 Oscilloscope Education and Training Kit



APPLICATIONS

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

SPECIFICATIONS

		IDS-6072A-U	IDS-6102A-U	IDS-6152A-U	
VERTICAL	Channels	2	2	2	
	Bandwidth	DC~70MHz(-3dB)	DC~100MHz(-3dB)	DC~150MHz(-3dB)	
TRIGGER	Rise Time	<5ns Approx.	<3.5ns Approx.	<2.3ns Approx.	
	Sensitivity	2mV/div ~ 10V/div (1-2.5 increments)			
	Accuracy	± (3% x Readout + 0.1 div + 1mV)			
	Input Coupling	AC, DC & Ground			
	Input Impedance	1MΩ ± 2%, ~15pF			
	Polarity	Normal & Invert			
	Maximum Input	300V (DC+AC peak), CATII			
	Waveform Signal Process	+, -, x, FFT, FFTrms, Zoom FFT			
	Offset Range	2mV/div ~ 50mV/div : ±0.4V ; 100mV/div ~ 500mV/div : ±4V ; 1V/div ~ 5V/div : ±40V ; 10V/div : ±300V			
	Bandwidth Limit	20MHz (-3dB)			
EXT TRIGGER	Source	CH1, CH2, Line, EXT			
	Mode	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width			
HORIZONTAL	Coupling	AC, DC, LF rej., HF rej., Noise rej.			
	Sensitivity	DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 70/100/150MHz: Approx. 1.5div or 15mV			
X-Y MODE	Range	±15V			
	Sensitivity	DC ~ 25MHz : ~ 50mV ; 25MHz ~ 70/100/150MHz : ~15mV			
	Input Impedance	1MΩ ±2% , ~ 15pF			
	Maximum Input	300V (DC + AC peak) , CATII			
SIGNAL ACQUISITION	Range	1ns/div ~ 50s/div (1-2.5-5 increments); ROLL : 50ms/div ~ 50s/div			
	Modes	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y			
	Accuracy	±0.01%			
	Pre-Trigger	10 div maximum			
	Post-Trigger	1000 div			
CURSORS AND MEASUREMENT	X-Axis Input	Channel 1			
	Y-Axis Input	Channel 2			
	Phase Shift	±3° at 100kHz			
	Real-Time Sample Rate	1GSa/s maximum			
	Equivalent Sample Rate	25GSa/s maximum			
	Vertical Resolution	8 Bits			
	Record Length	2Mega Points maximum			
ADJUSTABLE PROBE COMPENSATION SIGNAL	Acquisition Mode	Normal, Peak Detect, Average			
	Peak Detection	10ns(500ns/div ~ 50s/div)			
	Average	2, 4, 8, 16, 32, 64, 128, 256			
	Voltage Measurement	V _{pp} , V _{amp} , V _{avg} , V _{rms} , V _{hi} , V _{lo} , V _{max} , V _{min} , Rise Preshoot/Overshoot, Fall Preshoot/Overshoot			
	Time Measurement	Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle			
	Delay Measurement	Eight different delay measurement			
	Cursors Measurement	Voltage difference between cursors (ΔV), Time difference between cursors (ΔT), frequency measurement (1/ΔT)			
	Auto Counter	Resolution : 6 digits			
	CONTROL PANEL FUNCTION	Accuracy	Accuracy : ±2%		
		Signal Source	All available trigger source except the Video trigger mode		
DISPLAY	Frequency Range	1kHz ~ 100kHz, 1kHz/STEP			
	Duty Cycle Range	5% ~ 95%, 5%/STEP			
INTERFACE	Autoset	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically			
	Save Setup	Up to 15 sets of measurement conditions			
	Save Waveform	15 sets of waveform			
POWER SOURCE	TFT LCD Type	5.7 inch			
	Display Resolution	234 (Vertically) x 320 (Horizontally) Dots			
MISCELLANEOUS	Display Graticule	8 x 10 divisions			
	Display Brightness	Adjustable			
DIMENSIONS & WEIGHT	USB Device	USB1.1 & 2.0 full speed compatible (PictBridge Compatibility Printers Supported)			
	USB Host	Image (BMP) waveform data (CSV) and setup (SET)			
DIMENSIONS & WEIGHT	Line Voltage Range	AC 100V ~ 240V, 48Hz ~ 63Hz, Auto selection			
	Go/NoGo Function	Available			
	Data Logger	Available			
	Multi-Language Menu	Available			
	Online Help	Available			
DIMENSIONS & WEIGHT		310(W) x 142 (H) x 140(D)mm, Approx. 2.5kg			

The specifications apply when the oscilloscope is powered on for at least 30 minutes under +20°C ~ +30°C.

Specifications subject to change without notice.

ORDERING INFORMATION

IDS-6072A-U	70MHz, 2 channel, 1GSa/s & 2Mega Memory DSO
IDS-6102A-U	100MHz, 2 channel, 1GSa/s & 2Mega Memory DSO
IDS-6152A-U	150MHz, 2 channel, 1GSa/s & 2Mega Memory DSO

ACCESSORIES

User manual x1, Power cord x1
 Probe GTP-070A-4 or equivalent: 70MHz (10:1/1:1) Switchable passive probe for IDS-6072A-U (one per channel)
 Probe GTP-100A-4 or equivalent: 100MHz (10:1/1:1) Switchable passive probe for IDS-6102A-U (one per channel)
 Probe GTP-150A-2 or equivalent: 150MHz (10:1/1:1) Switchable passive probe for IDS-6152A-U (one per channel)

OPTIONAL ASSESSORIES

GTL-242 USB Cable, USB 2.0 Type A - Type B, 4P GTL-110 Test Lead, BNC-BNC Heads
 GSC-006 Soft Carrying Case

FREE DOWNLOAD

PC Software FreeWave software Driver USB driver; LabView Driver

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