



ISDS2062A
ISDS2062B

ISDS2062A(B) User Guide

InstruStar Electronic Technology

2015-8-15

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PC SYSTEM REQUIREMENTS

- Windows XP, Win7, Win8, Win10
- Pentium or higher processor
- USB2.0 High speed port.
- 512MB RAM
- 1GB hard disk space

1.Introduction

ISDS2062A/ISDS2062B dual-channel digital oscilloscope, with "low-cost, high-performance" as the design goals. well-designed bandwidth of 12Bit, 20M, 60M sampling rate, 2 channels, alternating support X-T and X-Y alternating pattern of two-channel virtual oscilloscope, spectrum analyzer. Meanwhile, ISDS2062B has DDS function. DDS support 5 kinds of waveform output, Sine wave can output up to 20M. The device communicate with the PC via high speed USB2.0.

	Digital oscilloscop	Spectrum analyzers	DDS
ISDS2062A	√	√	
ISDS2062B	√	√	√

2.Feature Description

Digital oscilloscope	
Channels	2
Impedance	1MΩ 25pF
Coupling	AC/DC
Vertical resolution	12Bit
Gain range	-32V ~ 32V (probe X1) -320V ~ 320V (probe X10)
Vertical accuracy	±3%
Timebase range	1ns-10s
Input Protection	Diode, 50Vpk
Autoset	Yes(10Hz to 20MHz)
Trigger Mode	Auto、 Normal and Signal
Trigger Type	No、 Edge、 Pulse
Trigger level	Yes
Trigger Source	CH1, CH2
Trigger Sense	0.1div-1.0div
Buffer Size	256KB/CH
Bandwidth	20MHz
Max sample	60MS/s
Vertical mode	CH1, CH2, ADD, SUB, MUL
Display Mode	X-T 和 X-Y
measurements	Yes
Wave save	Osc(Private)、 Excel and Bmp

Spectrum analyzers	
Channels	2
Bandwidth	20MHz
Algorithm	FFT(18 windows)、Correlation
FFT points	8-1048576/CHN
FFT measure	Harmonic(1-7)、SNR、SINAD、ENOB、THD、SFDR
Filter processing	<p>FIR filter supports arbitrary range of frequency sampling method , and Rectangle, bartlett, triangular, cosine, hanning, bartlett_hanning, hamming, blackman, blackman_Harris, tukey, Nuttall, FlatTop, Bohman, Parzen, Lanczos, kaiser, gaussand dolph_chebyshev, window method design.</p> <p>IIR filter support "Butterworth", "Chebyshev I", "Chebyshev II", "Elliptic" type of filter design</p>

DDS(Only ISDS220B)	
Wave	Sine, Square(Duty circle variable), Triangle, Up Sawtooth, Down Sawtooth
Amplitude	$\geq 9V_{p-p}$ (no load)
Impedance	$200\Omega \pm 10\%$
Offset	$\pm 2.5V$
Frequency range	0.1Hz ~ 20MHz(Sine), 0.1Hz ~ 2MHz(Others)
Frequency resolution	0.1Hz
Frequency steadiness	$\pm 1 \times 10^{-3}$
Frequency precision	$\pm 5 \times 10^{-3}$
Triangular wave linearity	$\geq 98\%$ (1Hz~10kHz)
Sine wave distortion	$\leq 0.8\%$ (1kHz)
Square wave rising/falling time	$\leq 100ns$
Square wave duty circle	1%~99%
SWEEP	
Sweep range	F_s 到 F_e
Sweep time range	0.1 ~ 10 s
Amplitude	0.5V _{p-p} ~ 10V _{p-p}

Note: The oscilloscope factory calibration, if you are not satisfied with the measurements, can manual calibration, the specific reference oscilloscope instructions.

3. Software Installation

Please refer to the "Software and Driver Installation.pdf".



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4.Oscilloscope/Spectrum analyzer/DDS

Please refer to the "Multi VirAnalyzer User Guide.pdf", "Digital storage oscilloscope (Professional Version).pdf" and "Digital storage oscilloscope (Simplified Version).pdf".