DSO1511G

This is a kind of quality oscilloscope, ARM+FPGA+ADC architecture, with 120M bandwidth and 500M sampling rate, more stable and with higher precisions. Widely application on mcu debugging, car repair, home appliance repair, DIY electronic competition, power-supply debugging, inverter, etc. You can have a try.

Features:Equipped with 320*240 resolution color TFT LCD display, with bright colors and high contrast, you can see the data clearly. ARM+FPGA architecture, with 120M bandwidth and 500M sampling rate, more stable and with higher precisions.

Generator: The upperside of the oscilloscope can output an adjustable waveform of 2.5V amplitude, the frequency-adjustment-range is 0-2MHz, the accuracy is up to 0.1Hz.

Parameter

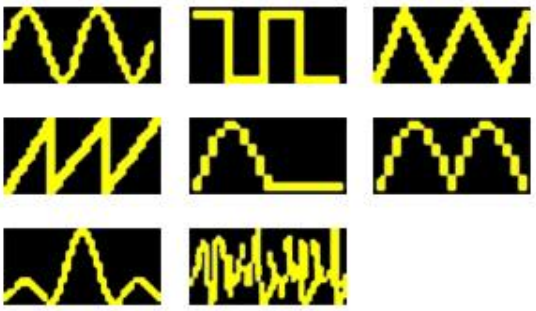
Model	DSO1511G	Coupling	AC/DC
Channels	1	AUTO	Support
Screen size	2.4inch	Measurement	14 types
Resolution	320*240	Precision of V	±2%
Bandwidth	120M	XY mode	NO
Sampling rate	500M	Screenshot	Support
Rise time	<3ns	Frequency	±0.01%
StorageDepth	128K	Single	Support
Impedance	1MΩ	FFT	Support
Time base	5ns – 10s	Wave out vol	2.5V
Vertical sensitivity	10mV/div-10V/div	Wave out freq	0-2MHz
Max voltae	±40V (x1) ±400V (x10)	Shell size	width*hight* thickness 72 *107 *32mm
Trigger mode	Auto/Normal	Language	CN/EN
Trigger type	rise/fall	Charging	Type-c 5V
Display mode	YT / Roll	Battery	2500mAh
Persistence	None/1s / ∞	Weight	166g

Compare with model-X

Model	DSO1511G	Model-X
BW	120M	100M
Screen	2.4'	2.4'
Measurements	14	8
Adjustable after stop	√	×
USB to Computer	√	×
Vertical sensitivity	10mV!!	50mV
FFT	√	×
Reference waveform	√	×
Signal Generator	Sin/Square/Triangle/etc High precision, 0-2MHz	None
Video output	√	×
Firmware update	√	×
Hardware solution	ARM9(32M)+FPGA+ADC	stm32+adc (Low cost)

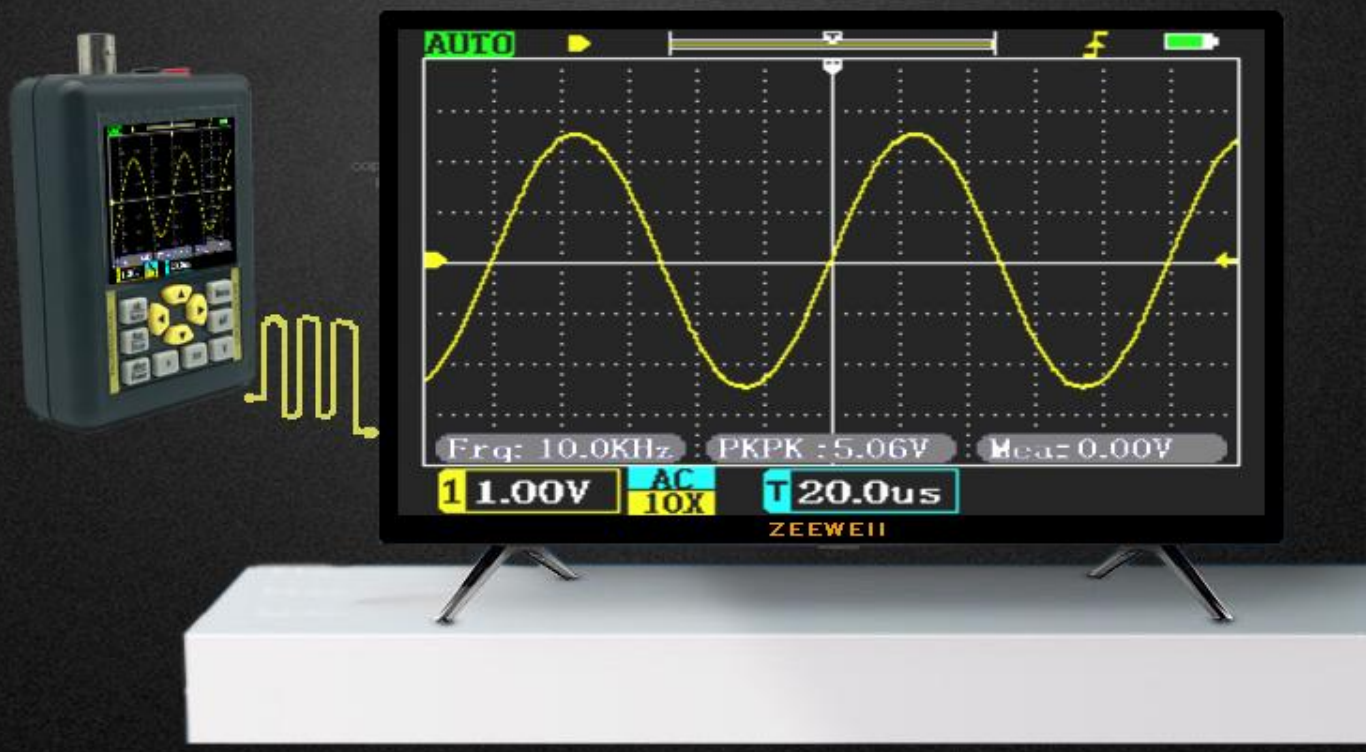
Signal Generator

The top of the oscilloscope can output a variety of waveforms with 2.5V amplitude, the frequency adjustment range is 0 ~ 2MHz, and the accuracy is up to 0.1Hz.



Video output

The screen can be projected to a TV or other larger screens with only one AV signal cable.



FFT

FFT is used to convert time domain waveforms into frequency domain and is widely used in harmonic analysis and other fields.

Support three display modes:

- Logarithmic
- Linear
- Music spectrum

Complete trigger

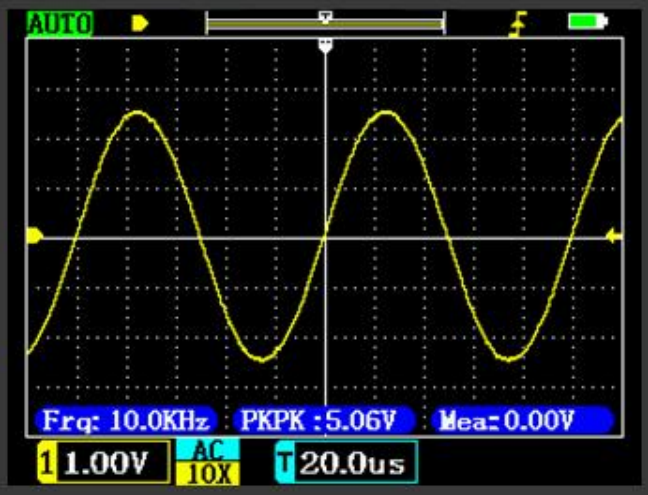
Trig mode: Auto/Normal/Single

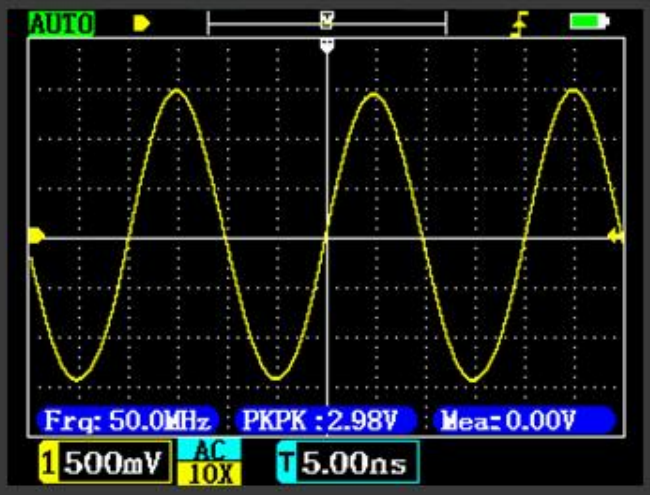
Trigger types: Rise/Fall

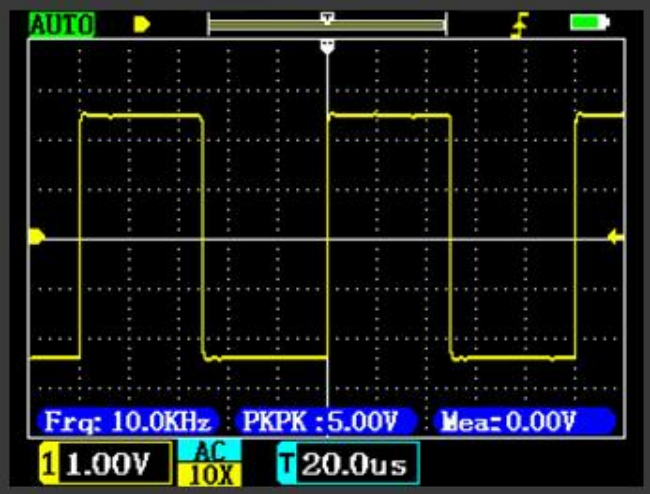
Trigger level: Manual/Auto

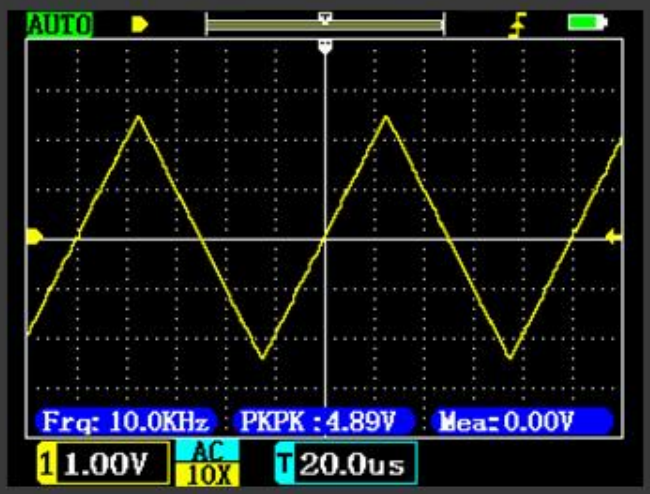
Waveform save/view

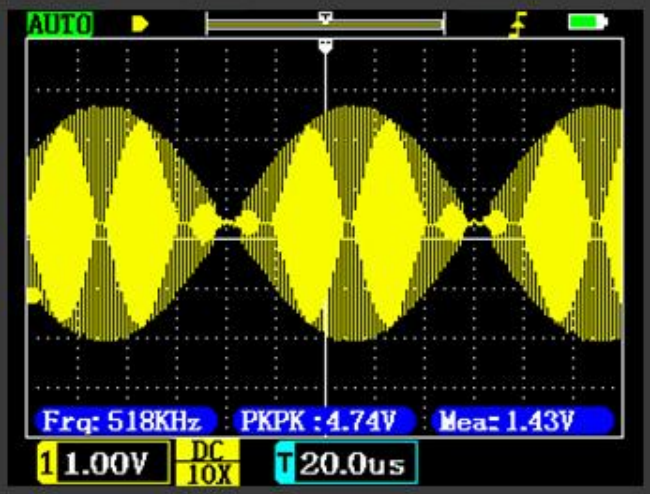
One-click to save the screen waveform, enter the waveform preview page, click the thumbnail to observe the full screen, and up to 250 waveforms can be saved. Unwanted waveforms can be deleted..

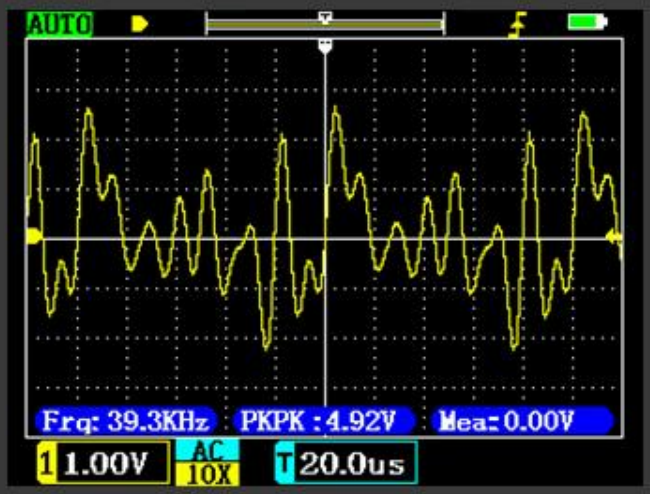

AUTO
Frq: 10.0KHz
PKPK :5.06V
Mea:0.00V
1 1.00V
AC
10X
T 20.0us


AUTO
Frq: 50.0MHz
PKPK :2.98V
Mea:0.00V
1 500mV
AC
10X
T 5.00ns


AUTO
Frq: 10.0KHz
PKPK :5.00V
Mea:0.00V
1 1.00V
AC
10X
T 20.0us


AUTO
Frq: 10.0KHz
PKPK :4.89V
Mea:0.00V
1 1.00V
AC
10X
T 20.0us


AUTO
Frq: 518KHz
PKPK :4.74V
Mea:1.43V
1 1.00V
DC
10X
T 20.0us


AUTO
Frq: 39.3KHz
PKPK :4.92V
Mea:0.00V
1 1.00V
AC
10X
T 20.0us

Multi-field use

ANTI-BURN

- ▣ Basic R&D
- ▣ Car repair
- ▣ Home appliance repair
- ▣ Switching power supply
- ▣ Hi-Fi Music Fever
- ▣ Inverter
- ▣ 220V mains
- ▣ Support 100:1 probe