

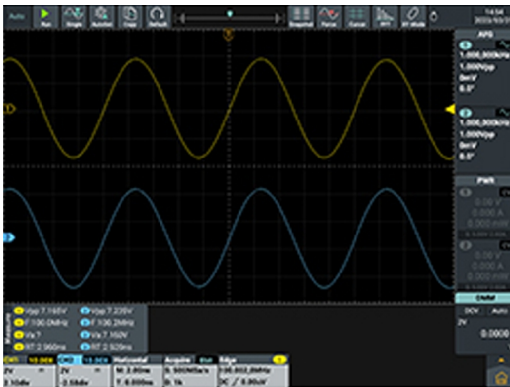
4 in 1 Instrument

Sciencetech DL3 is an integrated instrument that includes a Digital Storage Oscilloscope, DC Power Supply, Arbitrary Function Generator and a Multimeter in a compact size.

Features

- Supports external HDMI display, mouse and keyboard, facilitating complex editing operations.
- Supports configuring multi-media equipment, such as camera, microphone, speaker and headphone jack, expand more teaching methods.
- Supports network communicating via LAN and WiFi (optional module), Users can access web pages through the browser APP.
- Built-in web server, supports users to control the instrument through the web page.
- Quickly save the instrument interface picture and test process video, and easy to review.
- The built-in APP can also be used for document editing and Python secondary development.
- 10.4 inch capacitive touch HD display, new design UI, new touch experience.
- Rich interface: USB host x4, USB 2.0 device, LAN, HDMI, audio, external trigger input, auxiliary output (trig out, pass/fail).
- Supports SCPI for secondary development.

Multi-function Hardware Integration

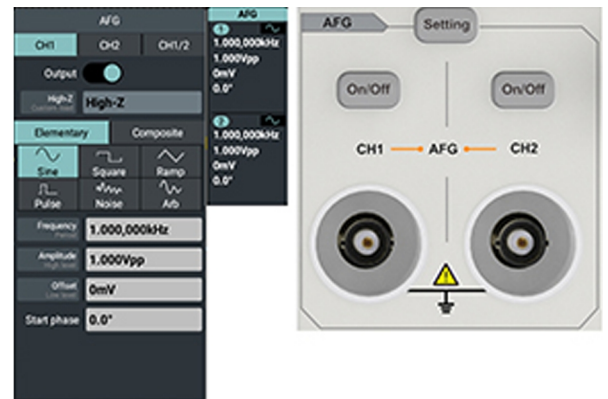


Digital Oscilloscope

- Bandwidth: 100MHz
- Sampling rate: 1GS/s
- 2 channels
- 14 bits ADC

Waveform Generator

- Dual channel
- Output frequency: 50MHz
- Sampling rate: 300MS/s
- Arb waveform length: 8K
- Vertical resolution: 14 bits
- Amplitude: 1mVpp -10Vpp



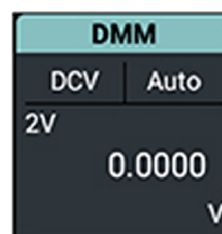
Power Supply

- 15V/3A dual output power supply (output power:15W)
- Setting accuracy: 10mV/10mA
- Low ripples / low noise
- $\leq 2\text{mVrms}$ / $\leq 5\text{mArms}$



4 ½ Digits Digital Multimeter

- 20000 count
- Automatic range
- Support voltage, current, resistance, Diode test, Capacitance On/Off



Technical Specifications

Bandwidth	100MHz	
Sample Rate	1GS/s	
Vertical Resolution (A/D)	8bits	
Channel	2	
Input impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF	
Input coupling	DC, AC, and GND	
Record length	10M	
Horizontal Scale (s/div)	2ns/div - 1000s/div, step by 1 - 2 - 5	
Max Input Voltage	1MΩ ≤ 300Vrms;	
Vertical Sensitivity	1mV/div - 10V/div (at input)	
Cursor Measurement	ΔV, and ΔT between cursors, ΔV and ΔT between cursors, and auto- cursors	
Automatic Measurement	Period, Frequency, +Pulse Width, -Pulse Width, Rise Time, Fall Time, Screen Duty, +Duty Cycle, -Duty Cycle, PK-PK, RMS, Overshoot, Max, Min, Top, Cycle RMS, Base, Amplitude, Preshoot, +Pulse Count, - Pulse Count, Rise Edge Count, Fall Edge Count, Area, Cycle Area, Delay A→B, Delay A→B, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF	
Waveform Math	+, -, ×, ÷, FFT, User Defined Function, digital filter	
Waveform Storage	128MB, 100 waveforms	
Lissajou's Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees
Trigger Type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I ² C, SPI, RS232, LIN and CAN	
Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Trigger Mode	Auto, Normal, and Single	
Interface	HDMI; USB device *1, USB Host *4 ; Trig Out(P/F); LAN; earphone	
Frequency Counter	available	
WIFI (Optional)	available	
Display	10.4 inch (1024×768) touch LCD	

Power Specifications

Channel	CH1/CH2	
Rated Output (0°C-40°C)	Max Voltage	0.1-15V
	Max Current	0.1-3A
	Max Power	15W
Setting Resolution	Voltage	10mV
	Current	10mA

Multimeter Specification

Full Scale Reading	4½ digits	Frequency Response	(40 - 1000) Hz
Auto Range	√	Ture rms	√
Measure	Voltage, Current, Capacitance, Resistance, Frequency, Duty cycle, Continue, Diode test		

Waveform Generator Specification

Max Frequency Output	50MHz
Sample Rate	300MS/s
Channel	2
Amplitude (HR)	2mVpp - 10Vpp
Waveform Length	8K