



**HESTORE.HU**

elektronikai alkatrész áruház

**EN:** This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).



- + Oscilloscope + multimeter + waveform generator, multifunction in one
- + 3.5-inch high-resolution, high-contrast color LCD display, can work continuously for about 6 hours
- + USB Type-C interface, support power bank,
- + Self-calibration function
- + 18650 lithium battery, comprehensive power consumption  $\leq 3W$ , support PC software connection
- suitable for outdoor use
- + SCPI supported, facilitate secondary development

### [ Performance Characteristics ]

Model	HDS242	HDS272	HDS242S	HDS272S
Bandwidth	40MHz	70MHz	40MHz	70MHz
Channel	2		2+1(signal generator)	
Sample rate	250MSa/s			
Acquisition model	Sample, Peak detect			
Record length	6K			
Display	3.5 inch LCD			
Waveform refresh rate	10000 wfirms/s			
Input coupling	DC, AC ,Ground			
Input impedance	1 M $\Omega$ ±2%, in parallel with 16 pF±10 pF			
Probe attenuation	1X,10X,100X,1000X			
Max. input voltage	400V (DC+AC, PK - PK)			
Bandwidth limit(typical)	20MHz / Full bandwidth			
Sampling rate range	5ns/div ~ 500s/div,step by 1 – 2 - 5			
Sensitivity Resolution	10mV/div~10V/div			
Low Frequency (-3db)	$\geq 10$ Hz (at input, AC coupling)			
Rise time (at input, Typical)	$\leq 8ns$	$\leq 5ns$	$\leq 8ns$	$\leq 5ns$
Trigger type	Edge			
Trigger model	Auto, Normal, single			
Trigger level range	$\pm 4$ div from the screen center			
Automatic measurement	Period, Frequency, Mean, PK-PK, Max, Min			
Cursor measurement	$\Delta V$ , $\Delta T$ , $\Delta T \& \Delta V$ between cursors,auto cursor			
Communication interface	USB Type-C			

### [ Digital Multimeter Specification ]

Full scale reading	4 $\frac{1}{2}$ digitals (max 20000 count)
Testing Modes	Voltage, Current, Resistance, Capacitance, Diode ,Continuity
Maximum Input Voltage	AC 750V, DC 1000V
Maximum Input Current	DC : 10A AC : 10A
Diodes Test	0-2V

	Measurement Range	Accuracy
DC Voltage	200.00mV	±(0.5%+5 dig)
	2.0000V/20.000V/200.00V	±(0.3%+3 dig)
	1000.0V	±(0.5%+2 dig)
AC Voltage	200.00mV/2.0000V/20.000V/200.00V	±(0.8%+5dig)
	750.00V	±(1%+5dig)
DC Current	20.000mA/200.00mA	±(1%+5dig)
	10.000A	±(2.5%+2dig)
AC Current	20.000mA/200.00mA	±(1%+5dig)
	10.000A	±(2.8%+5dig)
Resistance (Ω)	200.00Ω/2.0000kΩ/20.000kΩ/200.00kΩ/2.0000MΩ	±(0.8%+3dig)
	20.000MΩ	±(1%+3dig)
	100.00MΩ	±(3%+3dig)
Capacitance (F)	20.000nF/200.00nF/2.0000μF/20.000μF/200.00μF/2.0000mF	±(3.0%+10dig)
Frequency response (Hz)	(40 - 1000) Hz	

### [ Signal Generator Specification ] (HDS242S & HDS272S)

Frequency Output	Sine	0.1Hz~25MHz
	Square	0.1Hz~5MHz
	Ramp	0.1Hz~1MHz
	Arbitrary Waveform	0.1Hz~5MHz
Sample Rate	125MSa/s	
Channel	1	
Amplitude	20mVpp-5Vpp (high impedance) , 10mVpp-2.5Vpp (50Ω)	
Waveform length	8K	
Vertical resolution	14bits	
Load impedance	1MΩ/50Ω	

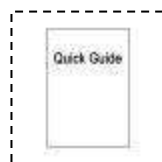
### + Accessories (the accessories subject to final delivery)



Power Cord



Probe



Quick Guide



USB Cable



Multimeter Lead



Probe Adjust



Soft Bag



BNC plug to alligator clips cable