

Handheld Digital Multimeter (Megatek VC97)

✓ General Features

- Auto-Range handheld multimeter with 3+3/4 digit measurement accuracy.
- True RMS measurement capability.
- DC voltage measurement from 0.01mV to 1000V and AC up to 750V.
- Current measurement from 0.1uA to 10A.
- Equipped with temperature measurement function and a dedicated probe.
- Capable of measuring resistance, capacitance, diode testing, and continuity testing.
- Frequency measurement and duty cycle detection for all AC quantities.
- Supports MAX/MIN/REL/HOLD functions.
- Equipped with a torch light.
- Device powered by only 4 numbers AAA 1.5V batteries.
- Much easier access to 10A and 800mA fuses and battery replacement.
- Durable body with a protective holster.

✓ Features and Advantages

- Ability to connect to a computer via a Type C connector, along with dedicated software.
- High measurement accuracy with no noise.
- Very precise calibration compared to similar models.
- Incorporates MAX/MIN/REL/HOLD functions compared to similar models.
- Non-contact voltage detection (NCV).
- Features a dedicated connector for direct transistor testing without an adapter.
- Can be powered by an external power source solely through a Type C cable.

Details	models	HDMM
		Megatek VC97
Measurement		DCV, ACV ,DCA, ACA, Resistor, Capacitor, Diode, Triode , Temperature , Continuity test, Hfe, NCV, Frequency, Duty cycle
Power		4pcs 1.5V AAA or Type C Adaptor
Test leads		1 pair voltage probe & temperature probe
Display		LCD
MAX .indication		3999
Input Impedance		~10MΩ
Measuring Method		Dual A/D conversion
Sampling rate		Approx.3times/second
Over range indication		OL in display
Operating environment		0 ~ 40°C humidity<75%RH
Storage environment		-20 ~ 60°C humidity<85%RH
hFE NPN OR PNP		0~ 1000
Temperature measurement		Celsius, Fahrenheit
weight		390g include batteries
Dimension		186*92*52mm
Backlight function		YES
Auto power off(APO)		YES
Continuity test		YES
NCV		YES
Torch		YES
MAX/MIN		YES
REL		YES
RS232 (PC Connection Interface)		YES
Software Connection Capability		YES
EXTERNAL STRUCTUR	Sounds alarm indictor	YES
	LCD display	YES
	function/range button	YES
	Measuring input terminal	YES
	function selection button	YES
	Auto/manual range conversion	YES
	Relative value measurement/troch control	YES
	Data hold/backlight control	YES
	NCV indictor position	YES
	Torch window	YES
	Hang hole	YES
	Screws for fixing the battery box	YES
	Bracket	YES
Test leads holder	YES	

Accuracy Table

Function	Range	Resolution	Accuracy
DC Voltage	40m	0.01mV	$\pm(1.5\% \text{ of meas. val.} + 5 \text{ digits})$
	400m	0.1mV	
	4V	1mV	$\pm(1\% \text{ of meas. val.} + 3 \text{ digits})$
	40V	10mV	$\pm(1\% \text{ of meas. val.} + 3 \text{ digits})$
	400V	100mV	
	1000V	1V	$\pm(1.5\% \text{ of meas. val.} + 3 \text{ digits})$
AC Voltage	40m	0.01mV	$\pm(1.5\% \text{ of meas. val.} + 5 \text{ digits})$
	400m	0.1mV	
	4V	1mV	$\pm(1\% \text{ of meas. val.} + 5 \text{ digits})$ 20Hz-2kHz for AC
	40V	10mV	
	400V	100mV	
	750V	1V	
AC/DC Current - Jaws	400uA	0.1uA	$\pm(1.5\% \text{ of meas. val.} + 5 \text{ digits})$ 20Hz-2kHz for AC
	4000uA	1uA	
	40mA	0.01mA	
	400mA	0.1mA	
	4A	0.001A	
	10A	0.01A	
Resistance	400 Ohm	0.1 Ohm	$\pm(1.5\% \text{ of meas. val.} + 3 \text{ digits})$
	4 kOhm	1 Ohm	
	40 kOhm	10 Ohm	
	400 kOhm	100 Ohm	
	4 MOhm	1 kOhm	
	40 Mohm	10 kOhm	
Continuity Buzzer	<30 Ohm		<10 - 50 Ohm
Diode Test	0 - 3V		
Capacitance	4.000 nF	0.001 nF	+/- (10% of m. v. + 25D)
	40.00 nF	0.01 nF	+/- (2% of m. v. + 10D)
	400.0 nF	0.1 nF	+/- (1.5% of m. v. + 5D)
	4.000 uF	1 nF	+/- (1.5% of m. v. + 5D)
	40.00 uF	10 nF	+/- (1.5% of m. v. + 5D)
	400.0 uF	100 nF	+/- (2% of m. v. + 10D)
	4.000 mF	1 uF	+/- (10% of m. v. + 25D)
	40.00 mF	10 uF	+/- (10% of m. v. + 25D)
Frequency	9.000 Hz	0.001 Hz	+/- 0.1% + 1D
	99.00 Hz	0.01 Hz	
	999.0 Hz	0.1 Hz	
	9.000 kHz	1 Hz	
	99.00 kHz	10 Hz	
	999.0 kHz	100 Hz	
	9.000 MHz	1000 Hz	
	9.999 MHz	1000 Hz	
Duty Cycle	(1% ~ 99%)		
Overvoltage Cat.			CATIII 1000V