



## True RMS Datalogging Multimeters UT181A

UNI-T's UT181A is a 60000 count True RMS auto range digital multimeter with 100kHz bandwidth. It can save 20000 group data and capture data trend.

### Main features

1. Trend capture
2. Data logging: 20000
3. Data comparison
4. 3.5-inch 64k color TFT LCD
5. Dual temperature measurement
6. Low pass filter
7. Li-ion battery: 2200mAh battery
8. Real time and date
9. Peak hold function
10. Bluetooth/APP/PC software
11. IP65

<b>Specifications</b>	<b>Range</b>	<b>Best Accuracy</b>
<b>Model</b>		<b>UT181A</b>
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	$\pm(0.025\%+5)$
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	$\pm(0.3\%+30)$
DC Current (A)	600 $\mu$ A/6000 $\mu$ A/60mA/600mA/10A	$\pm(0.08\%+10)$
AC Current (A)	600 $\mu$ A/6000 $\mu$ A/60mA/600mA/10A	$\pm(0.6\%+20)$
Resistance ( $\Omega$ )	600 $\Omega$ /6k $\Omega$ /60k $\Omega$ /600k $\Omega$ /6M $\Omega$ /60M $\Omega$	$\pm(0.05\%+2)$
Admittance (S)	60ns	$\pm(2\%+10)$
Capacitance (F)	6nF/60nF/600nF/6 $\mu$ F/60 $\mu$ F/600 $\mu$ F/6mF/60mF	$\pm(2\%+5)$
Frequency (Hz)	10Hz-60MHz	$\pm(0.01\%+5)$
Temperature ( $^{\circ}$ C)	-40 $^{\circ}$ C ~ 1000 $^{\circ}$ C	$\pm(1\%+30)$
Temperature ( $^{\circ}$ F)	-40 $^{\circ}$ F ~ 1832 $^{\circ}$ F	$\pm(1.5\%+50)$
<b>Features</b>		
Display Count		60000
Auto Range		$\surd$

Manual Range		√
True RMS		√
Bandwidth (Hz)	100kHz	√
AC+DC		√
Low Pass Filter	1KHz(-3db)	√
Dbv/dBm		√
Continuity Buzzer		√
Diode	Around 3V	√
Duty Cycle	10% ~ 90%	√
Dual Temperature Measurement	T1, T2, T1-T2, T2-T1	√
Data Hold		√
Peak Hold		√
Relative Mode		√
Data Logging	20000	√
Trend Capture		√
MAX/MIN/AVG		√
Data Time Display		√
Data Comparison		√
Display Type	3.5 Inches 64K Color TFTL LCD (320*240)	√
Backlight Adjustment		√
Analog Bar Graph		√

USB Interface		√
Mis-Plug Alarm		√
Battery Indication		√
Auto Power Off		√
Re-Chargeable Battery		√
Input Protection		√
Input Impedance for DCV	≥10MΩ	√

<b>General Characteristics</b>	
Power	7.4V 2200mAh Li-ion Battery
LCD Size	70mm*52mm
Product Color	Red and grey
Product Net Weight	638.6g
Product Size	103mm X 225mm X59 mm
Standard Accessories	Test Leads, Battery, Alligator Clip, PC Software CD, USB Interface, BNC Probe
Standard Individual Packing	Gift Box, Carrying Bag, English Manual
Standard Quantity Per Carton	20pcs

Standard Carton Measurement	480mm X 385mm X 505mm (0.085 CBM Per Standard Carton)
Standard Carton Gross Weight	26.5kg
Optional Accessories	Bluetooth Adaptor (UT-D07)