

# UNI-T®

## UT181 Series

### True RMS Datalogging Multimeters



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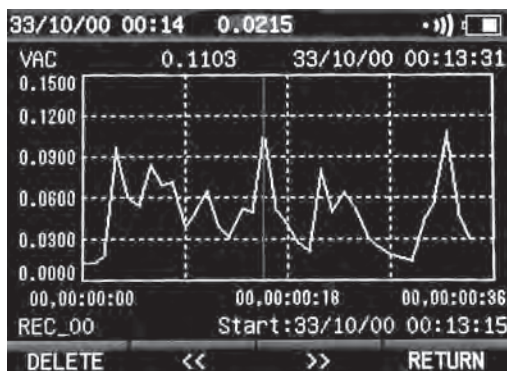

 EN 61010-1  
 EN 61010-2-033  
 EN 61326-1

**NEW**

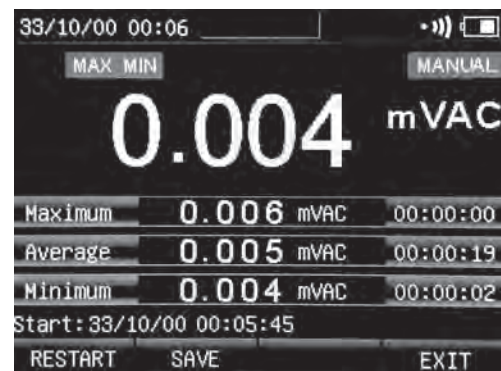
## Main Feature:

1. Display count 60000 (320X240 resolutions 3.5" TFT Color LCD display);
2. Support displaying multiple measurement results at the same time;
3. More than 10 measurements including: Voltage(AC/DC)、Current(AC/DC)、Resistance、Diode、Capacitance、Admittances、Frequency、Duty Cycle、Impulse Width、Dual-Temperature and etc;
4. True RMS response for AC Voltage and AC Current measurement with build-in low pass filter;
5. 100kHz bandwidth for AC voltage and AC current measurement, together with 10kHz bandwidth for AC voltage and AC current at AC+DC measurement mode;
6. Data logging up to 20k data set of memory; Data events include store, review, delete, plot in trend-diagram;
7. Other data events including Max, Min, and AVG;
8. Up to 20A current measurement (30 seconds of measurement time);
9. Standard USB cable for PC communication, and optional Bluetooth Adaptor (UT-D07A) for Smart Phone communication;
10. Rugged double molding and IP65 water proof industrial design;
11. Compatible with EN61010-1 safety rating at CAT III 1000V/ CAT IV 600V;
12. Power by 2000mAh Li-ion battery and recharge by included power adaptor.

## Imaging as below:



(1). Trend Capture Function



(2). Max/Min/AVG Measure Function



(3). Data Logging Function



(4). Menu-Multi-Function selectable





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**NEW**



UT-D07A

### UT-D07A Bluetooth Adaptor

- Build-in Smart Bluetooth 4.0 Low Energy module
- Power by 2 x 1.5V AAA batteries
- Support iOS 6.0 or above and Android 4.0 or above
- Compliant to UT71/UT171/UT181 series digital multimeter

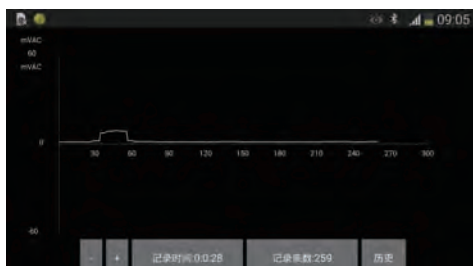
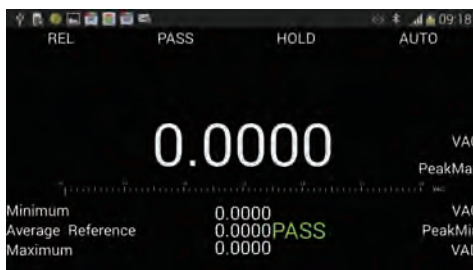


### iDMM Smart Phone Application

iDMM is a smart phone application for data transferring or collecting for Uni-T brand DMM including UT71/UT171 and UT181 series digital multimeter. iDMM application can be download at both Apple store or Android store (<http://m.appchina.com/search/iDMM>).

Features of iDMM including the following:

1. iDMM support 3 operating model
  - a) Real-Time mode: transferring and data from support DMM to smartphone at sampling rate of the DMM;
  - b) Data logging mode: Log data transfer from DMM to smartphone at desire sampling set by the Smart Phone;
  - c) Data transfer mode: transfer the measurement data stored at the DMM to smartphone application.
2. iDMM also support 3 different views
  - a) List view: data is representing as a list of measurement result;
  - b) Landscape view: current measurement data at enlarge view;
  - c) Trend-Capture view: graphic representation to the measurement result.
3. Other features
  - a) Setting up sampling rate for data logging mode;
  - b) Email the store list data.





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**NEW**



## SPECIFICATIONS

Specifications	Range	Best Accuracy
<b>Model</b>		<b>UT181A</b>
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.025%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.3%+30)
DC Current (A)	600µA/6000µA/60mA/600mA/10A	±(0.08%+10)
AC Current (A)	600µA/6000µA/60mA/600mA/10A	±(0.6%+20)
Resistance (Ω)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.05%+2)
Admittance (nS)	60nS	±(2%+10)
Capacitance (F)	6nF/60nF/600nF/6µF/60µF/600µF/6mF/60mF	±(2%+5)
Frequency (Hz)	10Hz ~ 60MHz	±(0.01%+5)
Temperature (°C)	-40 °C ~ 1000°C	±(1%+30)
Temperature (°F)	-40°F~1832°F	±(1.5%+50)
<b>Features</b>		
Display Count		60000
Auto Range		✓
Manual Range		✓
True RMS		✓
Bandwidth (Hz)	100kHz	✓
AC+DC		✓
Lowpass Filter	1 kHz(-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/MIX/AVG		✓
Date Time Display		✓
Data Comparison		✓
Display Type	3.5 Inches 64k Color TFT LCD (320 × 240)	✓
LCD Backlight		✓
Simulate Strip		✓
USB Data Transport		✓
Mis-Plug Alarm		✓
Battery Indication		✓
Auto Power Off		✓
Charge Function		✓
Input Protection		✓
Input Impedance	Around 10MΩ	✓



■ UT181A

## GENERAL CHARACTERISTICS

Power	7.4V 2000mAh Li-ion Battery
LCD Size	70mm × 52mm
Product Color	Red and Grey
Product Net Weight	638.6 g
Product Size	103mm × 225mm × 59mm
Standard Accessories	Battery, Test Lead, Temperature Adaptor, Power Adaptor, Point Contact Temperature Probe x 2, CD Software, USB Cable
Standard Individual Packing	Giftbox, Carrying Bag, Manual, Warranty Card
Standard Quantity Per Carton	20 Pcs
Standard Carton Measurement	480mm × 385mm × 505mm (0.085 CBM Per Standard Carton)
Standard Carton Gross Weight	26.5 Kg
<b>Optional Accessories</b>	Bluetooth Adaptor (UT-D07)