OWON®

HIGH PRECISION

20000 Counts

AUTO RANGE AC/DC

V≈ AC/DC Voltage Measure

A≈ AC/DC Current Measure

MULTIPLE MEASUREMENT FUNCTIONS

Ω Resistance

NCV NCV

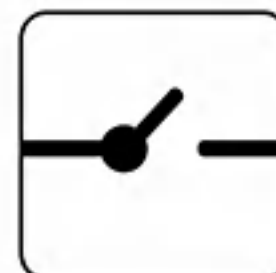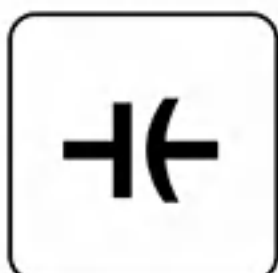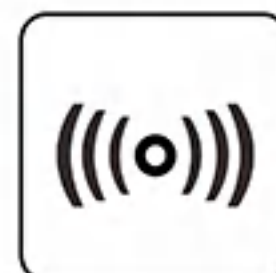VFC VFC

HOLD HOLD

ON/OFF

LCD LCD

Capacitance

Diode

Overload Protection

Low Battery Alert

Buzzing Prompt

True RMS True RMS

AC/DC INTEGRATED

## Suitable for AC/DC Voltage/Current measurement

BLE bluetooth connection, data can be viewed and controlled remotely (CM2100B)

High precision induction clamp head, accurately induct the small current

True RMS - *More accurate measurement*

Accurately measure the effective values of various waveform in real time, no need to consider waveform parameters and distortion. It can accurately measure/process the AC current/voltage of sine wave signal during the troubleshooting or performance testing and analysis of power system.
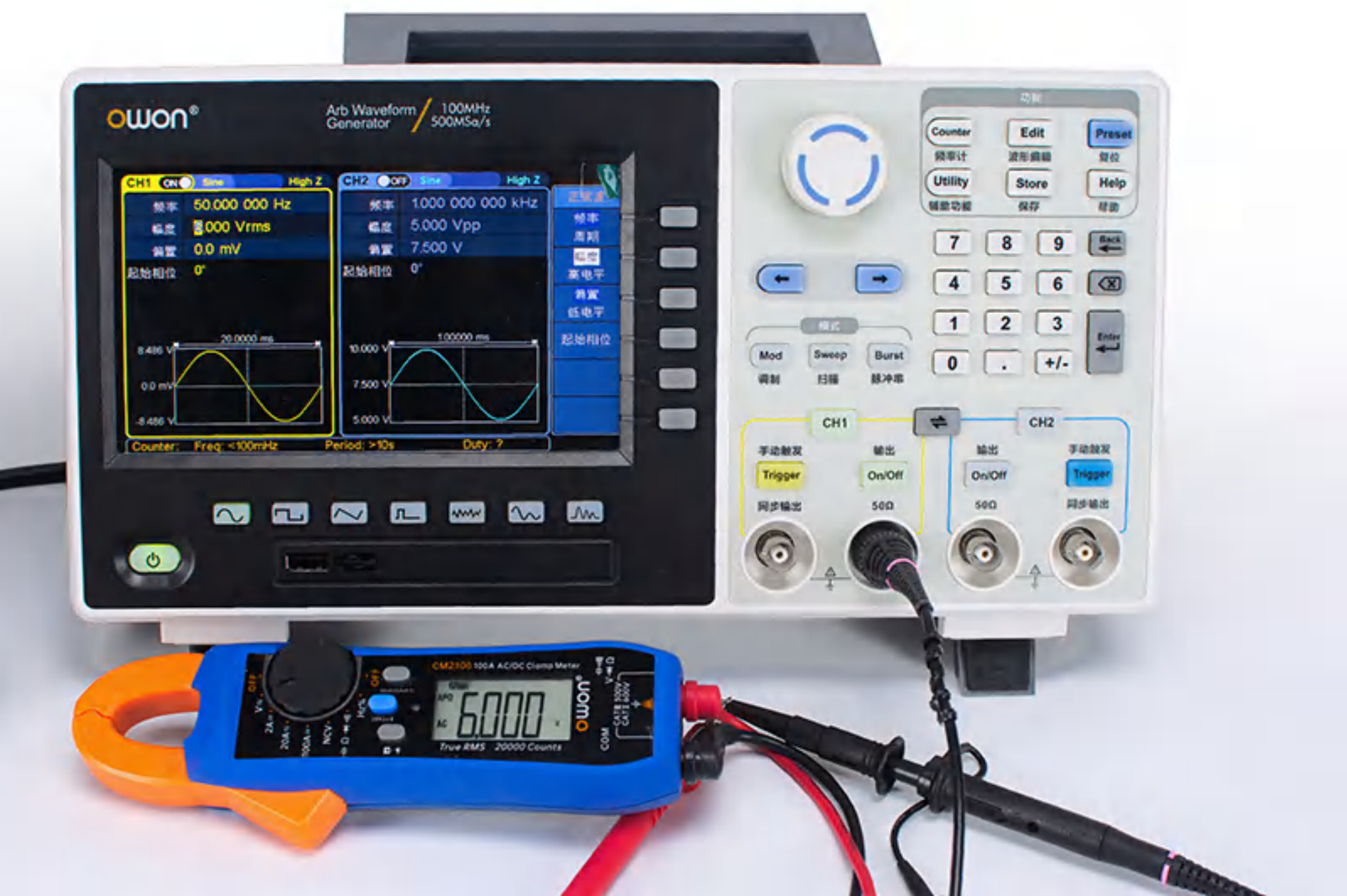
HIGH PRECISION AND RAPID DETECTION

AC/DC Voltage: 600V   AC/DC Current: 100A

Automatic measurement, Max display **20000Counts**

Capacitance measurement
maintenance tool

NCV - Inductive measurement of
non-contact voltage

Circuit board resistance
measurement

Diode measurement

CM2100B

Recorder Function

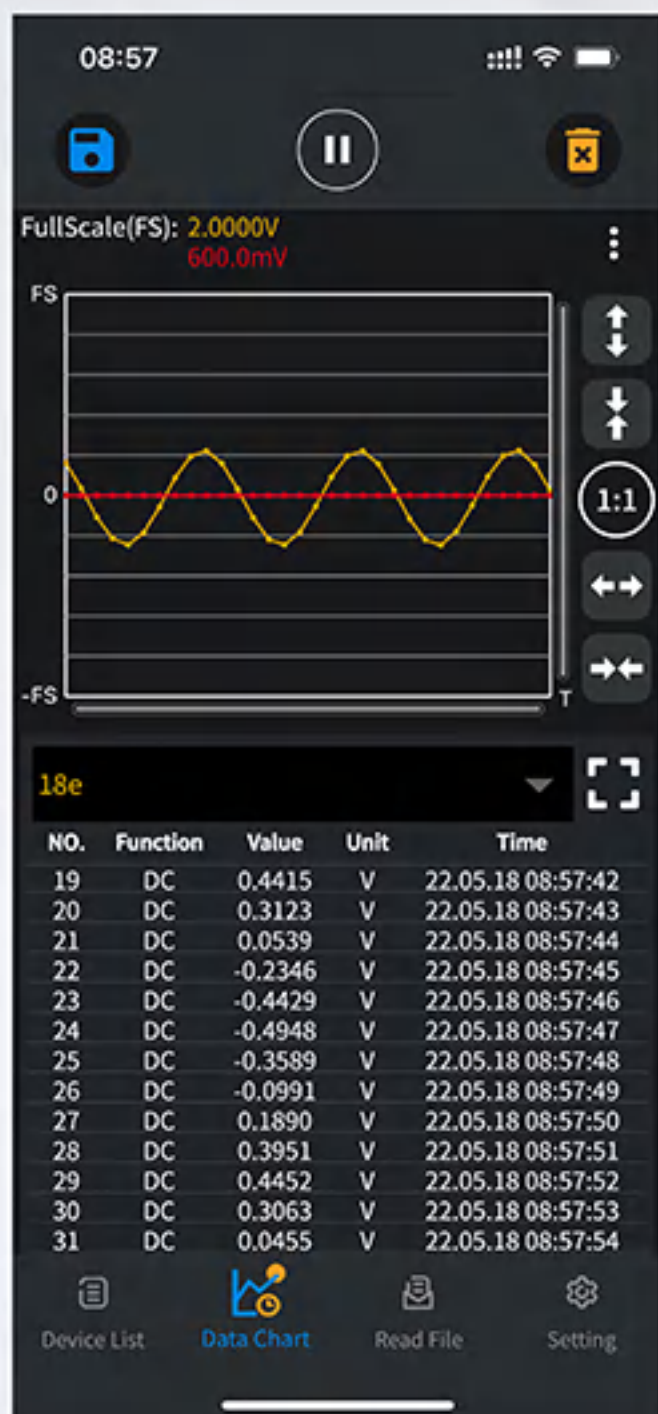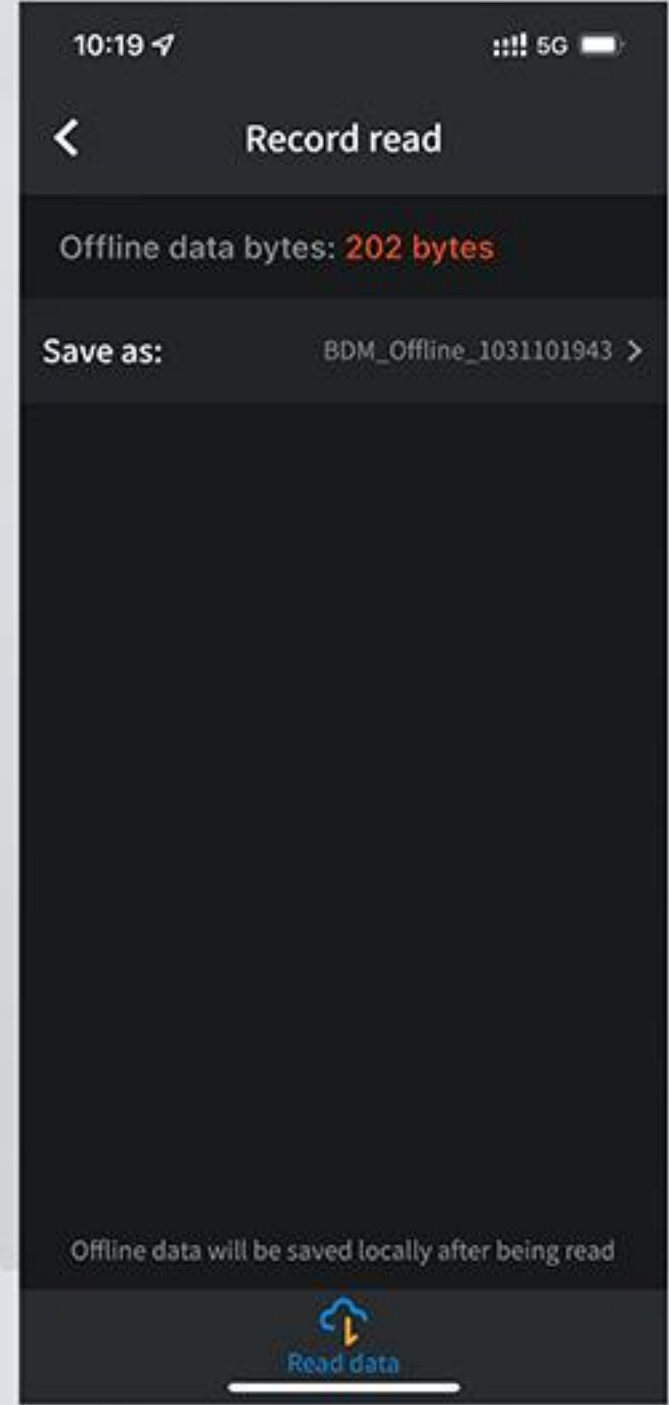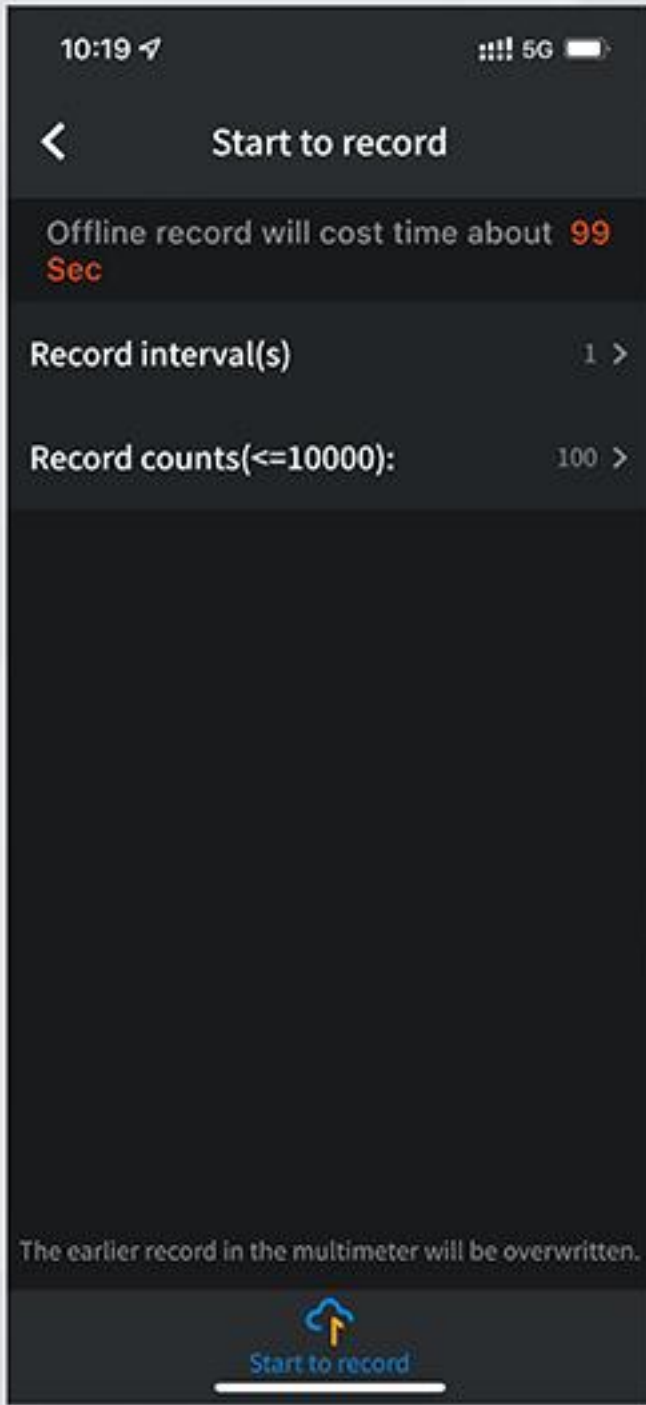Automatically record the measured value of the monitoring object according to the user setting, and display it in icon mode to see the change trend at a glance. At the same time, the recorded data (CSV File) can be shared to the computer for further analysis.
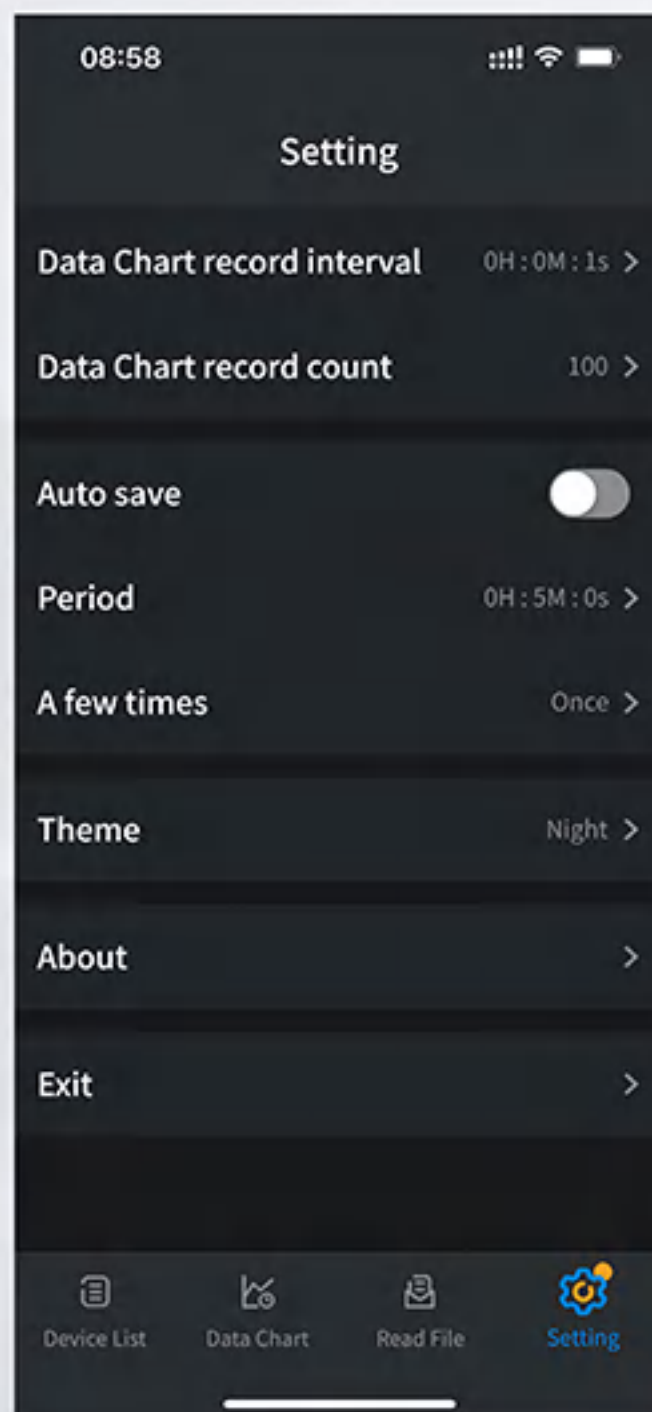
Offline Storage Function

1 Setup the sampling interval (1s to 42s) and the number of recorded points (0 to 100 points), when the clamp meter is disconnected from the phone, the internal chip-set will automatically save the data.

2 After recorded, to analyzing the data, just need to use the mobile APP to read the data in the table.

10:19 ⏱ :::! 5G 🔋

< **Start to record**

Offline record will cost time about **99 Sec**

Record interval(s)   1 >

Record counts(<=10000):   100 >

The earlier record in the multimeter will be overwritten.

⬆
Start to record

10:19 ⏱ :::! 5G 🔋

< **Record read**

Offline data bytes: **202 bytes**

Save as: BDM_Offline_1031101943 >

Offline data will be saved locally after being read

⬆
Read data

Comparative Analysis of Different Instruments

Use the same APP to connect different meters, except the clamp meter, OW Series & B Series multimeter are also available to be connected. You can comparative analysis these different instrument measurement parameters.

10:32

+   **Device List**

BDM

AC   0.001 A

BDM
AUTO

DC   341.5 mV

BDM
AUTO

Hz   0.000 Hz

BDM
AUTO

RES   OL MΩ

Device List   Data Chart   Read File   Setting

Alarm Function

Threshold alarm function open

Threshold Alarm ⬤

Upper limit	Not set >
Lower limit	Not set >
Alarm Mode	Without >
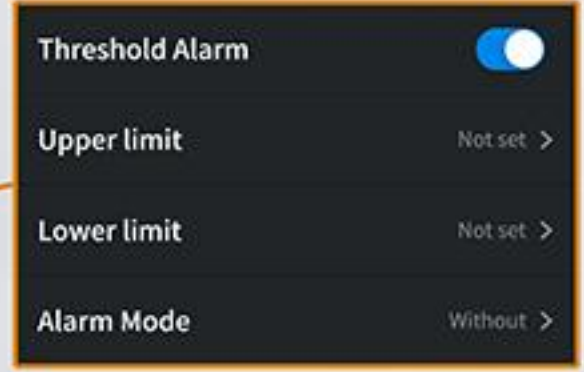
Upper limit, lower limit or interval value can be set.

DC   AUTO

12.117 mV

When the measured value is below or above the set value, or within/outside the range, the phone interface will turn red and sound an alarm.

08:43

DC   AUTO

12.117 mV

0 5 10 15 20

Record read   Start to record

Select   Range   H / 💡

△/Hz/Duty

Voice Broadcasting Function

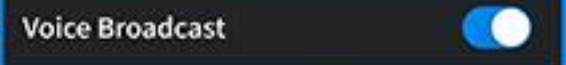Instead of looking at the screen, focus on testing the correct connection of the wire to make the measurement safer.

Voice Open

Voice Close

08:43   CM2000B

DC   AUTO

12.117 mV

0 5 10 15 20

Record read   Start to record

Select   Range   H / 💡

△/Hz/Duty

Voice Broadcast ⬤

Voice Broadcasting Setup

Bluetooth Meter + iMETER Application

Long time data monitoring

High risk test environment

Narrow environmental monitoring
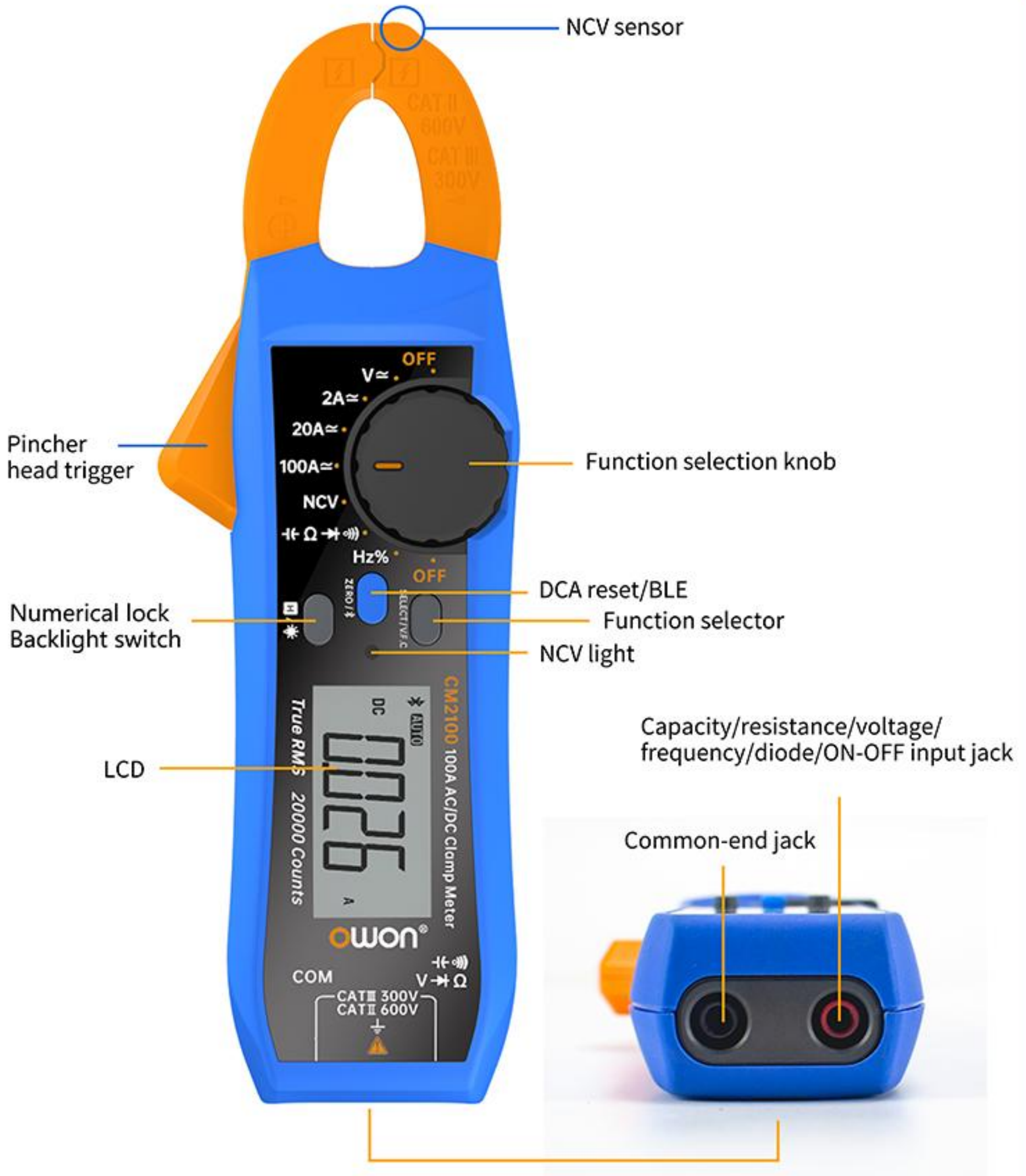
Simultaneously record multiple sets of values
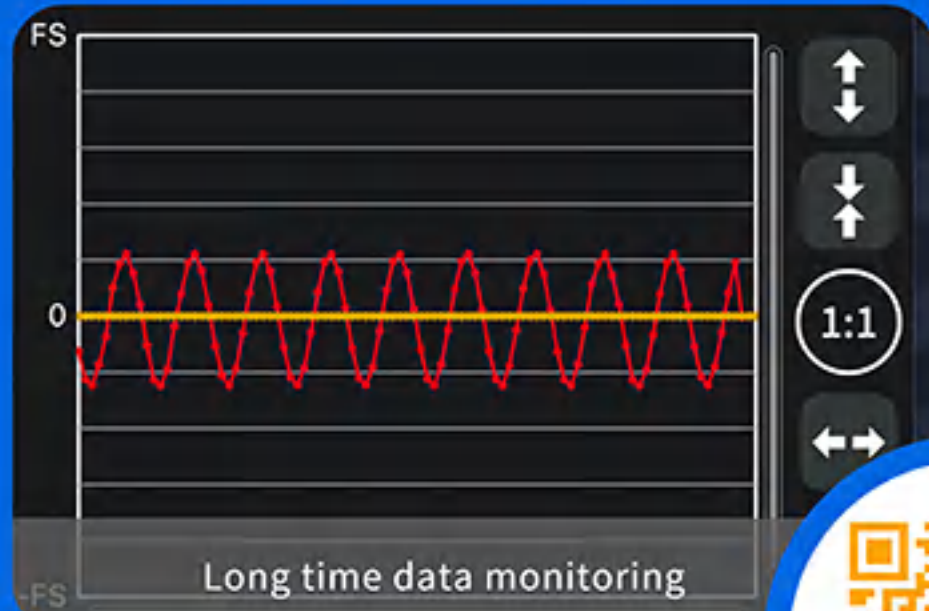
More comprehensive functions, More use versatile.

Scan QR code to download APP

PRODUCT STRUCTURE ANALYSIS

Complete adhesive cover, better using feels, better resistance to falls

NCV sensor

CAT II 600V
CAT III 300V

Pincher head trigger

OFF
V≃
2A≃
20A≃
100A≃
NCV
⊶⊢ Ω ⊷ ᵒᴵᴵᴵᴼ
Hz%
OFF

Function selection knob

Numerical lock Backlight switch

DCA reset/BLE

Function selector

NCV light

LCD

DC
True RMS 20000 Counts
CM2100 100A AC/DC Clamp Meter

owon®

COM   V ⊶⊢ Ω
CATⅢ 300V
CATⅡ 600V

Capacity/resistance/voltage/frequency/diode/ON-OFF input jack

Common-end jack

Dimensions (L x W x H): 57.2 x 32 x 181.3 mm

Performance Specifications

Model : CM2100, CM2100B

	Range	Accuracy
AC Current (A)	2.000A	±(3%+10dig) in VFC ± (4%+10)
	20.00A / 100.0A	±(2.5%+5dig) in VFC ± (4%+10)
AC Voltage (V)	2.0000V / 20.000V / 200.00V / 600.0V	±(0.8%+10dig) in VFC ± (4%+3)
DC Current (A)	2.000A	±(2%+8dig)
	20.00A / 100.0A	±(2%+3dig)
DC Voltage (V)	200.00mV	±(0.7%+10dig)
	2.0000V / 20.000V / 200.00V / 600.0V	±(0.5%+5dig)
Resistance (R)	200.0Ω	±(0.8%+10dig)
	2.0000kΩ	±(0.5%+10dig)
	20.000kΩ / 200.00kΩ / 2.0000MΩ	±(0.5%+10dig)
	20.000MΩ	±(1%+10dig)
	200.00MΩ	±(5.0%+10dig)
Capacitance (F)	2.000nF	±(4.0%+10dig)
	20.00nF/ 200.0nF/2.000uF 20.00uF / 200.0uF / 2.000mF/ 20.00mF	±(3.0%+10dig)
Frequency (Hz)	200.00Hz / 20.000kHz / 200.00kHz / 2.0000MHz / 20.000MHz	±(0.1%+5dig)
Duty cycle (%)	0.1% - 99.9%(typical: Vrms=1 V, f=1kHz)	±(1.2%+3dig)
	0.1% - 99.9%(≥1 kHz)	±(2.5%+3dig)

Special Funciton

Display	20000 conuts	Bluetooth Module	√ (only for CM2100B)
Frequency Respones	40Hz - 1000Hz	Zero	√
Auto Ranging	√	Low-battery Indicator	√
Date Hold	√	Relative Measurement	√
Diode	√	Input Protection	√
Continuity Buzzer	√	In put Impedance	≥10MΩ
VFC	√	Overrange Alarm	√
NCV	√	On-off Warning	√

Other

Jaw Capacity	17mm
Battery	2 x 1.5V AAA
Dimension (L x W x D)	182mm x 57mm x 32mm
Weight (without package)	0.2kg

PACKING ACCESSORIES

One-stop service, more intimate.

1 CM2000 2 Multimeter Lead 3 Bolt Driver 4 Quick Guide

5 Soft Bag 6 Battery (1.5VAAA,optional)

owon®
+Meeting your needs

Fujian Lilliput Optoelectronics Technology Co., Ltd.

No. 19, Heming Road, Lantian Industrial Zone Zhangzhou 363005 P.R. China
Tel : +86.596.213.0430   E-mail :info@owon.com.cn   www.owon.com