

yuwell



YE670CR

Electronic Blood Pressure Monitor

User's Manual

Please read the user's manual closely before using!

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Before using

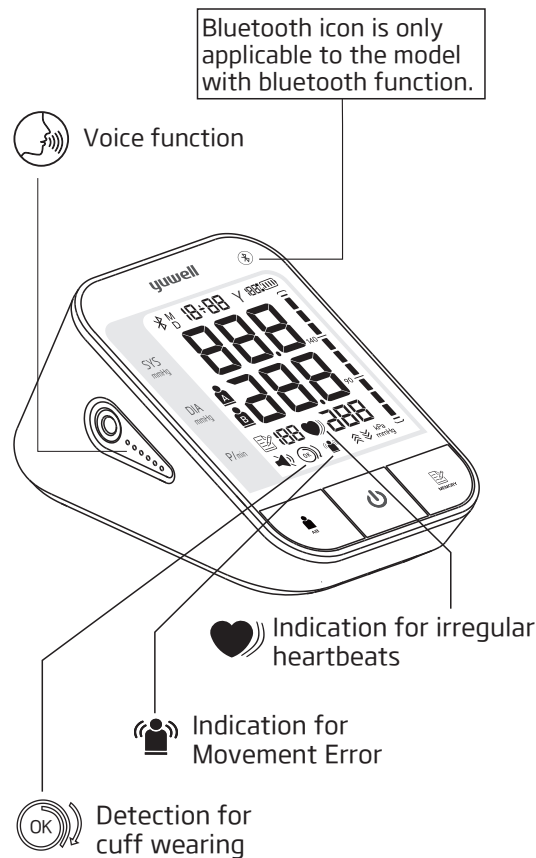
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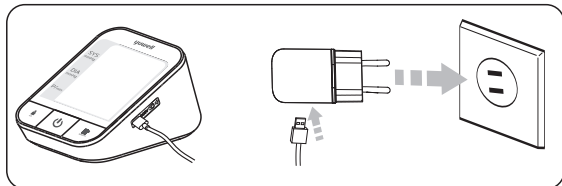
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Please follow the steps as shown below.

Power-on

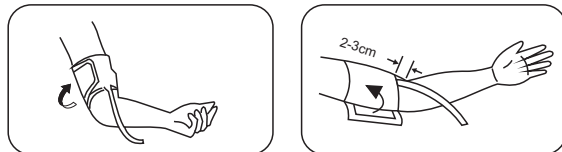
Connect the power source for charging as shown below.



Measurement

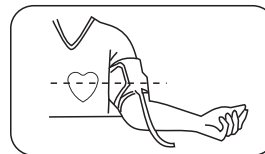
1. Using method of cuff

Wearing the cuff and make the lower edge 2~3cm above the elbow, keep the air tube inside of the arm. (Please turn to page 13 for details)




2. Measuring posture

Sit straightly, keep the center of cuff and heart at the same level. (please turn to page 15 for details)



3. Start measuring

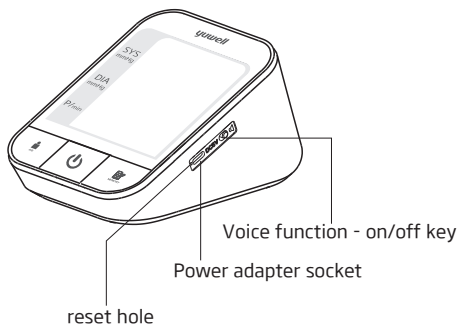
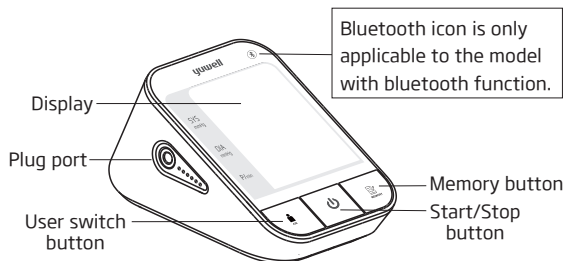
Sit still for 5 minutes and then press the "  " Button to measure. (Please turn to page 16 for details)

Check the records

Press the "  " button to check the measuring records.

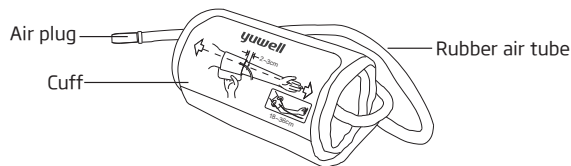
This monitor can display the average measurement and store 60x2 records. (Please turn to page 21 for details)

1. Main part

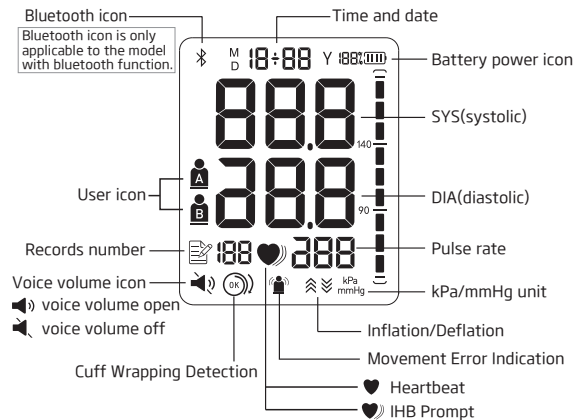


2. Cuff

The suitable upper-arm circumference of the cuff is 18cm~36cm



3. Display














4. Accessories

User's manual, Warranty card, USB cable

Cautions

Pay attention with the symbols shown here to prevent harm or damage to the user.













Symbol	Description
	Attention! It might cause damage
	Prohibited
	Obligatory
	Safety and environmental protection use periodFor 10 years
	Type BF application part
	Class II device
	Consult the manual
	Keep Upright
	Fragile
	Keep Dry
	Manufacture

Application scope and attention items

1. Range of application

The monitor is used for measuring blood pressure of human body (adult older than 12, not suitable for new born baby)!

2. Attention items

-  Caution: Pay attention to the following points when measuring or it may cause the incorrect results.
-  Sit still for 5 minutes before measuring to ensure quiet and stable mode.
-  Do not take the measurement while standing, walking or having body pressed.
-  Do not take the measurement after smoking, drinking wine or coffee (black tea).
-  Do not take the measurement after sport or bath.
-  Do not speak or move while measuring.
-  Do not move, shake arm or bend fingers while measuring.
-  Do not take the measurement at extreme temperature condition or the varied severely environment.
-  Do not take the measurement in a moving vehicle.
-  Do not measure continuously. (2~3 minutes or more should be spared between two measurements).
-  Do not measure within 1 hour after meal.
-  Do not use mobile phone near the monitor.



Application scope and attention items

- ❗ For patient of arrhythmia, measuring results may not be accurate.
- ⊘ Do not keep the cuff in the aerated state for a long time.
- ⚠️ **Note:** Do not diagnose with the measurement, Please follow doctor's instruction.

Statement: If the monitor has not been stored in the required temperature and humidity range, it may not conformance to specification.

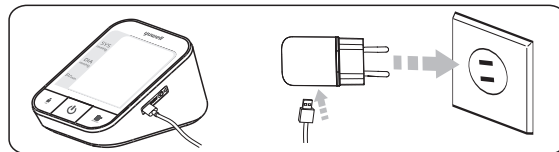
Battery charging



This product is powered by lithium battery. Please make sure the battery is sufficient when using the product.

- ▶ The "  " icon appearing and showing 25% or less mean the battery is low and needs to be charged.
- ▶ The "  " icon appearing and showing 5% or less mean the battery is running out. Please charge before using.

Power-on

1. Connect the power source for charging as shown below.



2. The "  " icon flashes during charging, and the "  " icon stops flashing when the battery is fully charged.
3. Please unplug the power adapter from the after charging.

⚠️ **Note:** Do not measure blood pressure when charging, so as not to cause abnormal measurement.

⚠️ **Note:** Please charge the device in a position where it is easy to disconnect from supply mains.

Tips!

Please use only the authorized yuwell AC Adapter (output DC 5V 1A) to charge, and you can contact the local dealer for consultation about the relevant information.

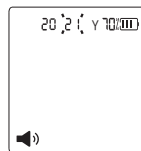
- ⊘ Do not place equipment with lithium batteries near the fire source.
- ⊘ Do not remove and replace the battery or squeeze the battery with hard objects.
- ⊘ Please charge the device in time when the battery is low.
- ❗ In order to extend the service life of lithium battery, it is recommended to maintain more than half of the power.
- ❗ When the equipment is not used for a long time (more than 6 months), it is easy to cause the passivation of the electrode material and lead to the decline of the battery performance. It is recommended to make it frequently.
- ❗ Please dispose of waste batteries in accordance with local environmental protection regulations.

⚠️ **Warning:** Do not replace the battery without authorization. Replacement of the battery by untrained personnel may result in overtemperature, fire, or explosion.

Time and date setting

The monitor will store the measuring results automatically by the management system. It is necessary to reset time and date after charging and starting up again. Please operate as following steps. (For example: setting the date as 2021-08-11 and time as 10:18)

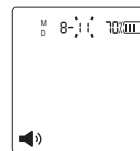
1. In standby mode, press the "⏻" button and the "📅" button for more than 3 seconds till the year's number starts flashing.
2. Press the "📅" button to advance by increments of one year.
3. After setting the year, press the "⏻" button to switch to the month setting, indicating that the month's number starts flashing.
4. Using the same way to set the month, day, hour, and minute in turn.



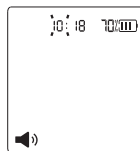
Year character blink



Month character blink



Date character



Hour character blink



Minute character blink

Voice volume setting

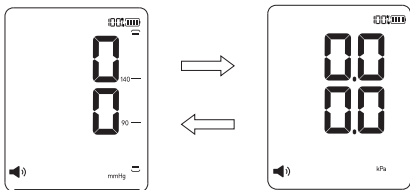
After finishing the time and date setting, press the "⏻" button to enter the voice volume setting. The size of the sound ranges from 01 to 04. Press the "🔊" button to choose the sound which you need.

Tips!

When the voice function key is In a state of shut, there is without voice broadcast function.

Unit setting

After finishing the voice volume setting, press the "⏻" button to enter the unit setting. Press the "📏" button to choose unit between mmHg and kPa. Press "⏻" to finish setting.



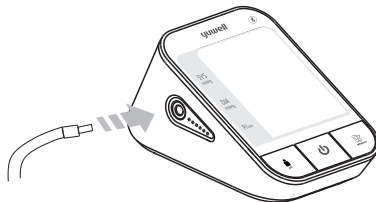
After finishing unit setting, press the "⏻" button to shut down.

Tips!

Either of arms can be measured.

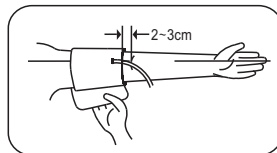
Cuff connecting

Connect the air connector of the cuff to the socket which on the left side of the monitor.



Using method of cuff

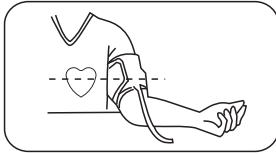
► Wind the cuff around the upper arm. (as shown in the picture) Keep the lower edge of the cuff at the position above 2-3cm to the elbow joint and keep the air inlet which insert to the cuff at the inner side of arm.



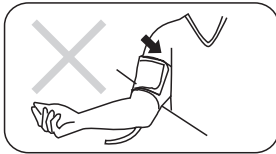
Using method of cuff

- ▶ Stick the cuff tightly.

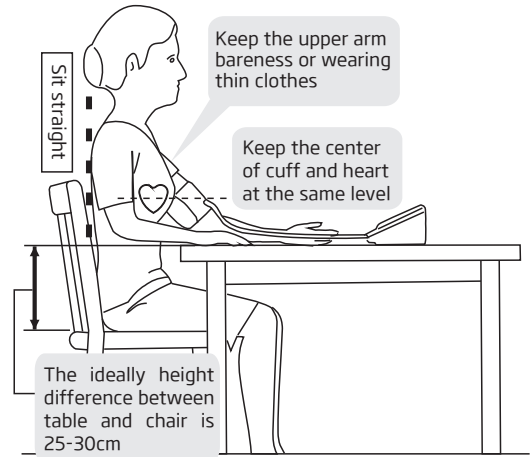
⚠ Note: The cuff should be wearing comfortably, avoiding too tight or loose.



- ▶ Sit straight and flat the arm on table with palm up, also keep the center of cuff and heart at the same level. Also please ensure the air tube not twisted.



Measuring posture



Wrong measurement postures

- ▶ Do not bend down or body bend forward.
- ▶ Do not sit with legs crossed.
- ▶ Do not sit on a sofa.(Belly pressure may increase the blood pressure)
- ▶ Do not put the arm on the low table.(May increase the blood pressure)








Start measuring

Don't eat, smoke, drink, take bath or do any high impact sport within half an hour before measuring. Measurements shall be taken at the same time every day.

Sit still for 5 minutes before the measurement

1. Measurement

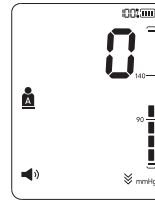
A. Press the "  " button to set the user to be measured before starting the measurement. And then press the "  " button to start the measurement.

B. All icons on screen appear for 1 sec if directly start measuring without user setting by pressing the "  " button, then disappear. After that the deflation icon "  " flashes which means the system is in zero testing. Several seconds later the inflation icon "  " flashes which means the zero testing is finished. Then inflation starts.

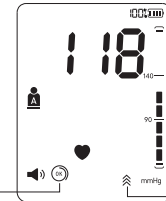


Full screen display state

Start measuring




The zeroing state

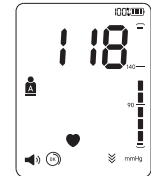


The inflation state

Increase with the pressure


Cuff detection icon

The monitor starts measuring automatically after inflation finished, and the heart icon "  " starts to flicker. The air escape valve automatically exhausts slowly, and the pressure value drops continuously.



The measuring state

Please maintain the position during the measurement and don't speak or move body or hand.

 **Warning:** Upper limit pressure of air inflation is 300mmHg/40.0kPa. Don't keep the inflated state for a long time to avoid damage.

Start measuring

2. Measurement finished

After measurement, the monitor will show the SYS, DIA and pulse rate, then deflate the air automatically.



mmHg display



kPa display

3. Take off the cuff

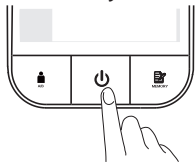
4. Shut down

Press the "⏻" button to shut down. Also it will power off automatically in 3 minutes without any operation.

Emergency stop during measurement

If the measurement need stopping for uncomfortableness or other reasons, please press the "⏻" button, the measurement will stop immediately and air releases fast.

Take off the cuff manually if the "⏻" button is not working.



Auxiliary measuring function

Detection for cuff wearing

The icon "⊗" appears when the cuff is wrapped correctly, and the icon "⊘" appears when the cuff is wrapped loosely or tightly.

Indication for Movement Error

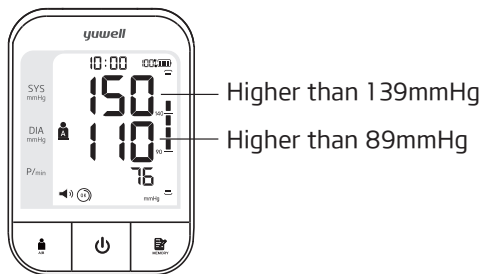
The product can automatic detection of the body during the measurement of the wrong movement and give the icon "⊗" prompt. If the icon "⊗" appears during the measurement, measure it again.

Indication for irregular heartbeats

the icon "♥" flashes if irregular pulse signal is detected during measurement, and it indicates that the measurement is abnormal and need to be remeasured. If the icon "♥" appears during multiple measurements, consult your doctor.

Blood pressure range indicator

- ▶ If the SYS is higher than 139mmHg or DIA higher than 89mmHg means having high blood pressure. Please contact with doctor for advice.
- ▶ Also the Blood pressure range indicator can show the blood pressure intuitively.



Tips!

- ▶ The time interval between two measurements should be at least 2~3 minutes or longer.
- ▶ Estimate the blood pressure condition according to the BP classification table, and consult the doctor.

Memory function

Tips!

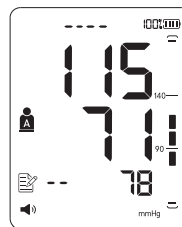
The monitor will store the measurement data automatically (including blood pressure and pulse), and the upper limit of records is 60 for one user.

Firstly, press the "A/B" button to select the user A or user B, and then press the "MEMORY" button to check the measurement data about the user selected.

1. Press the "MEMORY" button for the records

A. Press the "MEMORY" button to show the average value of the latest 3 times measurement.

B. Repress the "MEMORY" button to display the 1st group of memory, the serial number is displayed as "01" to "60". "01" is the latest group and the "60" is the earliest one.



The average value



The 1st group of memory

Tips!

The 60th data may be replaced by the 59th when the memory capacity is full.

C. Read the recorded data by pressing the "📄" button as the sequence: "01", "02" "60"(max). Then return to the 1st. Holding the "📄" button to search the data quickly.

D. Press the "🔌" button to shut off the monitor.

2. Delete the recorded data

Press the both "🔌" button and "📄" button until the display shown as the following picture, which means the recorded data is cleared.

Press the "🔌" button to turn off the monitor after deleting.



⚠️ Note: This operation will delete all the recorded data.

This function is mainly for professional personnel to enter the static mode to test the monitor through standard pressure gauge.

⚠️ Warning: Normal users don't need to know this function and also do not operate. The company will not take any responsibility for damage caused by this operation.

System restores

The screen will show all of icons after pressing the "🔌" button. After that, the screen will show the "⏸️" icon which means the system is in restore testing. Several seconds later, the "⏸️" icon disappears and the air pump starts inflating at the same time, which indicates the test ended. Then press the "🔌" button to stop inflating and take out the batteries to enter the next step.

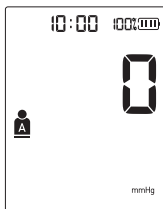
⚠️ Note: It must restore the system before entering the static mode, otherwise it may cause inaccurate results.

Entering the static mode

Press the "📄" button and hold. At the same time, poke the reset hole and release it. When you hear a click, release the "📄" button. Then the screen will show the pressure value "0", the time and date, mmHg. Now the system has restored and entered the static mode. Now can take the static test.

Tips!

- ▶ After entering the static mode, if the screen still doesn't show "0", please operate again as the system restore. Please contact with the local distributor if it still does not work.
- ▶ The monitor will automatically power off if there is no operation in 4 minutes.



The static mode

1. What is blood pressure?

Blood pressure is the force exerted by blood against the walls of the arteries. Systolic pressure occurs when the heart contracts. Diastolic pressure occurs when the heart expands. Blood pressure is measured in millimetres of mercury (mmHg). One's natural blood pressure is represented by the fundamental pressure, which is measured first thing in the morning while one is still at rest and before eating.

2. What is Hypertension and how is it controlled?

Hypertension, an abnormally high arterial blood pressure, if left unattended can cause many health problems including stroke and heart attack. Hypertension can be controlled by altering lifestyle, avoiding stress, and with medication under a doctor's supervision. To prevent Hypertension or keep it under control: Do not smoke, exercise regularly, reduce salt and fat intake, have regular physical checkups, maintain proper weight.

3. Why measure Blood Pressure at home?


Blood pressure measured at a clinic or doctor's office may cause apprehension and can produce an elevated reading, 25~30mmHg higher than that measured at home. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings and provides a more accurate, complete blood pressure history.

Common question of blood pressure measurement

4. WHO Blood Pressure Classification?

Standards to assess high blood pressure, without regard to age, have been established by the world Health Organization (WHO), as shown below:

Range	Systolic pressure kPa/mmHg	Diastolic pressure kPa/mmHg	Counter measures
Ortho-arteriotony	12.0~18.5kPa 90~139mmHg	8.0~11.9kPa 60~89mmHg	Self check
Mild hypertension	18.7~21.2kPa 140~159mmHg	12.0~13.2kPa 90~99mmHg	Consult dr.
Medium hypertension	21.3~23.9kPa 160~179mmHg	13.3~14.5kPa 100~109mmHg	Consult dr.
Severe hypertension	≥24.0kPa ≥180mmHg	≥14.7kPa ≥110mmHg	Danger! Go to hospital as soon as possible

 Note: There is no definition about hypopiesia, and generally SYS (systolic pressure) less than 90mmHg or DIA (diastolic pressure) less than 60mmHg is called hypotension.

Common question of blood pressure measurement


5. Blood pressure variations?

An individual's blood pressure varies greatly on a daily and seasonal basis. It may vary by 30 to 50 mmHg due to various conditions during the day. In hypertensive individuals variations are even more pronounced. Normally, the blood pressure rises while at work or play and falls to its lowest levels during sleep. So do not be overly concerned by the results of one measurement. Take measurements at the same time every day using the procedure described in this manual to get to know your normal blood pressure. Regular readings give a more comprehensive blood pressure history. Be sure to note date and time when recording your blood pressure. Consult doctor to interpret the blood pressure data.

6. When is the best time to measure blood pressure?



- ▶ After urination, before breakfast in the morning.
- ▶ Before sleeping at night.
- ▶ Before taking medicine.
- ▶ Please keep a stable body state and mind every time measuring. We suggest taking measurements at a same time every day.


Common fault and trouble shooting

Common fault	Solutions
It doesn't work after pressing the "  "button	Please try again after charging
Multiple occurrences of measuring failure, or measured value is low (or high)	Check the connection and winding of cuff
	Check if the cuff winded too tight or too loose. Take off your clothes if rolled too tight
	Please ensure a quiet, relaxed body state. Deep breathing to relax yourself before measurement
The monitor is in good condition, but the each measuring result are different	Please read the "blood pressure variations" carefully
The value is different from that measured at a clinic or doctor's office	Write down the value every day, and consult a doctor
Pump works, but the pressure doesn't rise	Check whether the cuff has connected well

Common fault and trouble shooting

The table below shows the possible fault displaying icon, possible reason, and solutions.

Wrong indication	Fault cause	Solution
Err4	Unable to measure pressure	Fasten cuff correctly before measurement
Err5	Pressurizing error	Check if there is air leakage from the cuff
Err6	Pressurizing error caused by arm or body motion	Keep arm and body still and measure again
Err7	Cuff is too lose or fall off	Fasten cuff tightly
Err8	Pressure exceeds the maximum value (300mmHg)	Measure again please
Showing low voltage icon "  "	Battery is low	Connect the power adapter for charging
Showing the "  "icon	Battery is running out	Connect the power adapter for charging

 **Warning:** If the situations cannot be solved or unexpected problem happens, please consult the local distributor.

Maintenance

Please observe the following items to protect the device and ensure the accuracy of measurement.

- ❗ Please store the monitor and accessories properly after use.
- ⊘ Do not place the monitor and accessories in high temperature, moisture, dust, or exposure to sunshine. The cuff contains an airbag inside, please care in applications, do not fold, pull or twist it.
- ❗ Do not disassemble or repair the device without authorization.
- ⊘ Do not replace the parts without authorization.
- ⊘ Please clean the monitor with soft dry cloth. If it's necessary, please use wiped soft cloth with water or neutral detergent before cleaning by soft dry cloth.
- ❗ Using absorbent cotton to wipe gently with rubbing alcohol, disinfection of the machine when it necessary. Do not use detergent to clean.
- ⊘ Do not let water seep into the device.

Tips!

We advice to calibrate the monitor according to local laws and regulations

Features and technical arameters

1. Features

- ▶ Large LCD display
- ▶ Cuff Wrapping Detection
- ▶ IHB(Irregular heartbeat) indicator
- ▶ Misoperation detection
- ▶ 60x2 groups of memory
- ▶ Average value display of three times measurement

2. Technical parameters

- ▶ Displaying: LCD digital display
- ▶ Measuring method: oscillation mensuration
- ▶ Measuring range: 0~300mmHg (0.0-40.0kPa)
- ▶ Pulse rate: 40~200 times/min
- ▶ Precision:
 - Pressure: within $\pm 3\text{mmHg}$ ($\pm 0.4\text{kPa}$)
 - Pulse rate: within 5% of reading value
- ▶ Working system: continuous operation
- ▶ Electric classification: Class II, type BF application part
- ▶ Pressure sensor: Semiconductor pressure sensor
- ▶ Pressurization: Automatic pressurize
- ▶ Depressurization: Automatic air releasing
- ▶ Power supply:
 - battery: DC 3.7V
 - adapter: input AC 100~240V, 50/60Hz, 0.35A, output DC 5V 1A
 - Maximum battery life: about 300 times

