SIZE:72*97MM 正面

Automatic Wrist Bluetooth Blood Pressure Monitor
DW702
Instruction Manual
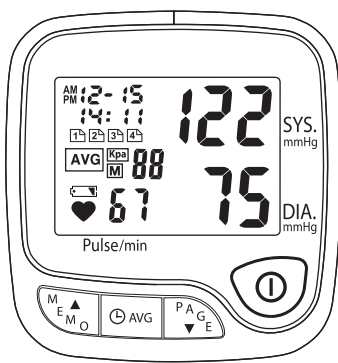
SAFETY PRECAUTIONS

Indications for use

Truly Automatic Wrist Bluetooth Blood Pressure Monitor DW702 intended to measure the systolic and diastolic blood pressure and pulse rate of an adult individual by using a non-invasive technique in which an inflatable cuff is wrapped around the Wrist.

The devices' features include irregular pulse rhythm detection during measurement, and will display a alert signal with the reading when irregular heartbeat is detected. The devices' feature include Bluetooth function to transmit data to an external Bluetooth device with wireless communication。

Over-The-Counter Use

- The monitor uses the oscillometric method to measure systolic and diastolic blood pressure, as well as heart rate;

- This device is intended for use in measuring blood pressure and pulse rate in the adult population, do not use this device on infants or persons who cannot express their intentions;

The monitor is not intended to be a diagnostic device, It is a home healthcare product only and it is not intended to serve as a substitute for the advice of a physician or medical professional.

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- Don't not use this device for diagnosis or treatment of any health problem or disease, Measurement results are for reference only, consult a healthcare professional for interpretation of pressure measurements. Contact your physician if you have or suspect any medical problem. Do not change your medications without the advice of your physician or healthcare professional;

- Use only Truly authorized parts and accessories. Parts and accessories not approved for use with the device may damage the unit, and get a error of measurement;

- Proper cuff size is critical for accurate measurements, Follow the instructions in this manual and printed on the arm cuff to ensure the appropriate size of cuff is being used;

- Blood pressure measurement can be affected by the position of the user、his or her physiologic condition and other factors;Position of the user such as bending over the body or cross-legged sitting will produce abdominal pressure or make the position of the arm below the heart, that will increase the blood pressure;

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- This product is not suitable for people with arrhythmias or serious arteriosclerosis. It may have difficulty determining the proper blood pressure for pregnant women and for users with irregular heartbeat,diabetes, pre-eclampsia, poor circulation of blood, measurement on the arm on the side of a mastectomy,kidney problems or for users who have suffered from a stroke;

- When measurement,The pressurization of the cuff to arm where intravascular access or therapy, or an arterio-venous(A-V) shunt, is present because of temporary interference to blood flow and could result in injury to the patient;

- When measurement, The pressurization of the wrist can temporarily cause function of simultaneously used monitoring other device on the same limb;

- The pulse display is not suitable for checking the frequency of heart pacemakers;

- Do not use a cellular phone near the device, It may result in an operational failure;

- Do not use the monitor in the driving or flying vehicles;

- Frequenly measuring will make the blood not flow, cause the arm-numbness and abnormal reaction of body;

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- When you are using the monitor to measure especially frequently used, the arm is compressed by the cuff, and then the fingertip will be caused congestion. During the congestion, loosen the cuff and lift the hands over your head, and make your right and left hand squeese and stretch 15 times, them will unclog the congestion;

- Do not applying the CUFF over a wound, as this can cause further injury;

- When measurement, please check that operation of the device does not result in prolonged impairment of the circulation of the blood of the patient;

- Do not compress the cuff tube during the measurement, or it will cause fail inflation or affect the result of measurement;

- Please use the product in the approved operate environment, or will cause the inaccurate result of Handling batteries properly: measurement;

- Dispose of the device, components and optional accessories according to applicable local regulations, Unlawful disposal may cause environmental pollution.

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- Babies, young children or individuals who cannot express their consent are not suitable to take blood pressure measurement.

- Blood pressure readings may change in case of pregnancy. Pregnant women can consult their doctor before taking measurement.

- Individuals with serious arteriosclerosis are not suitable to take blood pressure measurement.

- Keep the equipment away from children and pets.

- Do not disassemble, repair and alteration body.

- Self-measurement is not medical treatment. If there are unusual values, please consult your doctor.

- Handling batteries properly:
  - As soon as old batteries run out, replace with new batteries.

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Don't calling around the Blood pressure monitor when it is using，Don't move and avoid electromagnetic interference and noise interference when measuring that to avoid to measure error。

Attention： *Don't disassemble，repair and renovation ontology。*

Installing the APP
1) Download and install the Truly Healthcare App onto your Bluetooth 4.0 supported smart devices. The free Truly Healthcare App is available on the App Store for the Apple devices and Google Play for the Android based devices.
2) Open the App on your smart device and follow the on screen instructions to set up the user profile.

Warning:
The App is only intended use for receiving the measurement result from the Blood Pressure Monitor. It can't control the monitor.

- Do not use old and new batteries together.
- Align the polarities of the batteries correctly.
- When the unit will not be used for more than 3 months, remove the batteries. Otherwise, batteries may leak and cause damage to the unit.

QUICK START GUIDE

When the screen display the battery for one degree，it means that low Voltage and must change the new one to void to measure error。
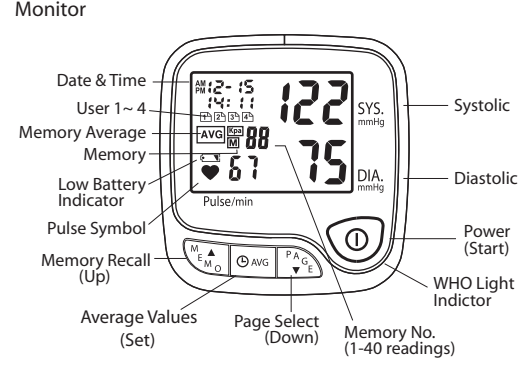
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Setup Procedures Installation

Prior to first use, Please download the TrulyHealth application from Apple store and install it to your iOS device. (Bluetooth 4.0 capabilities, e.g. iPhone 4S, iPhone 5, NewiPad and iPadMini).

Avoid smoking, eating or exercising for 30 minutes before taking measurement

1. Sit upright in a chair with your both feet on the floor.
2. Remove tight fitting clothing from you upper arm and thick clothing.
3. Pull on the end of the cuff until it wraps securely around your wrist. Place your arm on a table so that the cuff will be at the same level as your heart.
4. Connect iOS device via Bluetooth (Turn Bluetooth "On" under the "Settings" menu on the iOS device).
5. Open "TRULY" application, and then press the Blood Pressure icon on Measure screen.
6. Press the "①" button. The cuff will automatically inflate and the measurement will start.
7. In the same time of inflating, The monitor automatic pair quickly to TRULY application in a few seconds. Once monitor connect to the Application, the color of on the iOS application screen will be change to green from gray.

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When using more than one monitor with the Application, make sure that the WHO Light( ) in the subject monitor will turn on and in Green during inflation.

This indicates that the monitor is successfully connected to the Application. If the WHO Light does not light up in Green on the subject monitor, your monitor is not connected to the Application. In this case, turn off the monitor with the Green WHO Light and go back to Step 6 again.

8. When the measurement is complete, the cuff will automatically deflate and your systolic and diastolic pressure values and pulse rate will display.

9. After that check the measurement history on History screen or chart screen by iOS application.

Warning:
1. After press the "①" button, the color of " " on the iOS application screen is always gray . It means Monitor can connect to the application, please repeat the operation step 4~6.
2. In the same time, one monitor only pair and connect to one application via Bluetooth.When there are more than one compatible device in the vicinity of the subject device.

The device only connect to the subject device of first turning on .if you want connecting other subject device, you should first turn off the current connecting device.

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OVERVIEW

Monitor

- Date & Time
- User 1~4
- Memory Average Memory
- Low Battery Indicator
- Pulse Symbol
- Memory Recall (Up)
- Average Values (Set)
- Page Select (Down)
- Systolic
- Diastolic
- Power (Start)
- WHO Light Indictor
- Memory No. (1-40 readings)

Features
- One Touch Operation
- Irregular Heartbeat Detector
- Blood Pressure Mode and Clock Mode
- 4 User / 160 Total Memory
- 4 Alarm Clock Settings
- Averaging Mode -The average value of the last 3 measurements in the memory will display
- Auto-off Power Saving Feature
- Operated by 2 AAA batteries

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PREPARATION

2.1 Battery Installation
1. Remove the batteries cover in according with the direction of arrow.

2. Remove the used batteries and insert 2 AAA new batteries into the battery compartment an shown,taking care that the polarities (+)and (-) match the polarities of the battery compartment as indicated.

3. Slide the battery cover to close until the lock securely clicks into place.

Note： Replace batteries when the battery indicator " " shows low voltage.

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2.2 Date & Time Setting
Note:
- Set the correct date and time before taking a measurement.
- Date and time should be reset after replacing new batteries.

1. Press and hold the "ⒶAVG" button for a few seconds until the Year display flashes.
2. Press the "▲MEMO" or "PAGE▼" button to select the current year.
3. Press the"ⒶAVG " button to confirm Year Setting.
4. Follow the same steps to set the Month, Date, Hour and Minute.

5. You can choose Clock Function "ON" or "OFF" while the monitor is not in use. Press "▲MEMO" or "PAGE▼" button to select. Press the "ⒶAVG"button to confirm.

Noted: If you select Clock Function "ON", you will continue at the Alarm Setting section. Otherwise, setting will end.

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2.3 Alarm Setting（This alarm is only tips for patient)
Note:
- You will not be able to set alarm clock if Clock Function is set to "OFF".
- You can set a maximum of 4 alarms.

6. To disable Alarm, Press the "▲MEMO " or "PAGE▼" button to select "OFF" and press the "ⒶAVG" button to confirm.
7. To set 1st Alarm, Press the "▲MEMO" or " PAGE ▼" button to select "ON". Press the "①AVG" button to confirm.
8. When Hour digit flashes, press the"▲MEMO" or "PAGE▼" button to select Hour. Press the"ⒶAVG" button to confirm.
9. When Minute digit flashes, press the"▲MEMO" or "PAGE▼" button to select Minute. Press the"ⒶAVG" button to confirm.
10. Follow the same steps to set the 2nd, 3rd, and 4th Alarm.

Note:
- Press the "①" button anytime during clock setting/alarm setting to start over if an error occurs.
- Each alarm clock lasts 45 seconds, or you can turn it off by pressing the "①" button.

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2.4 Language Setting
When a measurement is completed, the results will read aloud; the systolic value, diastolic value and pulse.The default language is English.

To Change the Language Format:
1. Press and hold the "M"button until the screen displays [LLLx] (x = 0 ~ 3),then release the button.
2. Press the"M"button to select language, Number 0 ~ 3 represents the following languages:
   0 Mute
   1 English
   2 French
   3 Spanish
3. Press the "①" button to confirm the selection and begin measurement.

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SIZE:72*97MM 反面

TAKING MEASUREMENT

Note:
- Avoid smoking, eating or exercising for 30 minutes before taking measurement.
- Do not move or talk during measurement.
- Measurement can be taken on either arm.

3.1 Sitting Correctly
1. Relax
2. Sit upright in a chair with your both feet on the floor.
3. Remove tight fitting clothing from you upper arm and thick clothing. Do not roll up your sleeve if it is too tight.
4. Place your arm on a table so that the cuff will be at the same level as your heart.

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3.2 Applying the Wrist Cuff
1. Place your elbow on a table and palm facing upward, and wrap the arm cuff around the upper left arm.
2. Pull on the end of the cuff until it wraps securely around your upper wrist. Do not over tighten the cuff. Allow 1-2 cm or ½ inch between the bottom of the cuff and your wrist joint.
3. Make sure the cuff is at the same level as your heart.

3.3 User Setting
This unit allows a maximum of 4 users to store measurement records in different User Pages.
Press "PAGE▼" button to switch between User Page 1 ,2,3 and 4.

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3.4 Taking Measurement
1. Press the "①" button.The cuff will automatically inflate and the measurement will start.
2. When the measurement is complete, the cuff will automatically deflate and your systolic and diastolic pressure values and pulse rate will display.
3. Remove the wrist cuff and take note of your measurement results.

Note:You can press the "①" button to stop measurement at any time.

3.5 Heartbeat Readings

Besides Systolic and Diastolic values, Pulse will also be displayed after a measurement

Irregular Heartbeat
This unit has a unique feature that alerts user of irregular heartbeat detection during measurement.

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Note: An irregular heartbeat is defined as a heartbeat rhythm that has a variation of more than 25% from the average rhythm detected during measurement.

If such irregular rhythm occurs twice or more during the same measurement, the display screen will show the pulse value and "IH" symbol alternately.Example: (90 / IH)

Note： Please consult your doctor if irregular heartbeat occurs often.

Regular but Below Normal Heartbeat
If the monitor detects a pulse rate below 60 beats per minute during measurement, the monitor will display the pulse value and "LO" symbol alternately. Example: (58/LO)

Regular but Above Normal Heartbeat
If the monitor detects a pulse rate above 100 beats per minute during measurement, the monitor will display the pulse value and "HI" symbol alternately. Example: (102 / HI)

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MEMORY FUNCTIONS

After measurement, the last set of measured values will be saved automatically after measurement when the unit is turned off by pressing "①" button or by automatic power-off after 3 minutes.

4.1 View Past Readings
1. Press the "▲MEMO" button to enter memory function.
2. If the User Page is not what you want to view, press the "PAGE▼" button to select.
3. Press the "▲MEMO" button to display the next sets of values. Past readings are displayed from the most recent to the oldest.
4. This can stored up to 40 sets of past readings for each user (4 x 40).

4.2 View Average Readings
1. Press the "ⒶAVG" button to enter Average function.
2. If the User Page is not what you want to view, press the "PAGE▼" button to select.
3. Press the "ⒶAVG" button to view the Average Value of the last 3 stored measurements.

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4.3 Delete Past Readings
User can delete all the past readings stored in each User Page.
1. Press the "PAGE▼" button to select the User Page you want to delete.
2. Press and hold the "▲MEMO" & "PAGE▼" button simultaneously for 5 seconds. Symbol of "EE EE" will be displayed and all past readings stored in that User Page will be deleted.

To delete an individual measurement from the memory,
1. first press the "PAGE ▼" button to select the user.
2. Press the "MEMO▲" button to select the stored measurement to be deleted from the memory. Press and hold the "ⒶAVG" button for 5 seconds or until "dEL" appears in the display. Press the "MEMO▲" button to delete.

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TROUBLESHOOTING

Problem	Cause	Solution
No display when you press the Power /Start button	Have the batteries run out?	Replace new batteries.
	Are the battery polarities wrong?	Re-align batteries in correct polarities.
"Er P" displayed	Fail to inflate	Check if the cuff is properly connected.Replace the air tube if it is broken.
"Er 1" displayed	Deflate too rapidly	Return for servicing.
"Er 2" displayed	Movement during measurement	Do not move during measurement
	Signal interference	Remove interfering source e.g. mobile phones, magnets.
"Er 3" displayed	Incorrect results	Measure again.

Note:If your problem cannot be solved by the above, consult your store of purchase. Do not disassemble the unit.

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STORAGE & MAINTENANCE

- Keep away the unit from direct sunlight, extreme temperatures, humidity or moisture.
- Use a dry, soft cloth to clean the unit, or if desired, use a cloth lightly dampened with water.
- Do not use alcohol, benzene, thinner or other volatile liquids to clean the unit.
- Do not wash or expose the wrist cuff to liquid.
- The user must check that the equipment functions safely and see that it is in proper working condition before being used.

Warning: Long power cable and air hose.To avoid strangulation and entanglement, keep cable and hoses out of reach of young children.

SPECIFICATIONS

Model No.	DW702
Measurement Method	Oscillometric

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Measurement Range	Pressure: 20 – 280 mmHg Pulse Rate: 40 – 195 beats/min
Accuracy	Pressure:+/- 3 mmHg Pulse Rate: +/- 5%
Inflation	Pump driven
Pressure Detection	Semi-conductor
Power Supply	2x AAA batteries
Auto Power Off	3 minutes after last operation
Storage Environment	-20°C to 60°C, 10% to 95% RH
Operation Environment	10°C to 40°C, 30% to 85% RH 70kPa to 106kPa
External Dimensions	3.15"(L) x 3.35"(W) x 2.36" (H) or 80 x 85 x 60 mm
Net Weight	111g (batteries excluded)
Cuff Dimensions	Wrist circumference of 135~220mm
The pressure of the running	70KPa – 106KPa
used life span of battery	1000 times
Software version	V05S
Application part	〈out of contact the body〉connect tub、shell 〈contact the body〉cuff
Package Content	Instruction Manual, Battery Set, Warranty Card

Note: Subject to modification without prior notice.

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EMC Declaration

Guidance and manufacturer's declaration – electromagnetic immunity

The "DW702" is intended for use in the electromagnetic environment specified below. The customer or the user of the "DW702" should ensure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycles 70 % UT (30 % dip in UT) for 25 cycles <5 % UT (>95 % dip in UT) for 5 sec	<5 % UT (>95 % dip in UT) for 0,5 cycle 40 % UT (60 % dip in UT) for 5 cycle 70 % UT (30 % dip in UT) for 25 cycle <5 % UT (>95 % dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the "DW702" requires continued operation during power mains interruptions, it is recommended that the "DW702" be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE UT is the a.c. mains voltage prior to application of the test level

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Guidance and manufacturer's declaration – electromagnetic immunity

The "DW702" is intended for use in the electromagnetic environment specified below. The customer or the user of the "DW702" should ensure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of the "DW702", including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** $d=1,2\sqrt{P}$ $d=1,2\sqrt{P}$ **80MHz to 800MHz** $d=2,3\sqrt{P}$ **800MHz to 2.5 GHz** where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,ª should be less than the compliance level in each frequency range.ᵇ Interference may occur in the vicinity of equipment marked with the following symbol:
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

ª Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the "DW702" is used exceeds the applicable RF compliance level above, the Medical DW702 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the "DW702".

ᵇ Over the frequency range 150 kHz to 80 MHz, field strengths should be less than (3) V/m.

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Guidance and manufacturer's declaration – electromagnetic emissions

The "DW702" is intended for use in the electromagnetic environment specified below. The customer or the user of the "DW702" should ensure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The "DW702" uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The "DW702" is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Recommended separation distances between portable and mobile RF communications equipment and the Medical DW702

The "DW702" is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the "DW702" can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the "DW702" as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=1,2\sqrt{P}$	80 MHz to 800 MHz $d=1,2\sqrt{P}$	800 MHz to 2.5 GHz $d=2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.
NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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Disposal
At the end of its use don't dispose the appliance, including removable parts and Accessories, together with the other urban waste, but conformably to 2002/96/EC。Since it has to be treated apart from home waste，you must take it to a differential collection centre specific for electric and electronic equipment。Otherwise you can give it back to the retailer as you buy an equivalent apparatus。There will be Server sanctions in case of transgression。

The batteries used in this device must be disposed of in the special bins at the end of their life。

FCC Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However，there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception，which can be determined by turning the equipment off and on。the user is encouraged to try to correct the interference by one or more of the following measures:

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Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected。
Consult the dealer or an experienced radio/TV technician for help。

This device complies with Part 15 of FCC Rules。Operation is subject to the following two conditions：(1)This device may not cause harmful interference。and (2)This device must accept any interference received, including interference that may cause undesired operation。

Note： The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. such modifications could void the user's authority to operate this equipment。

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Manufactured in accordance with International Standards

- Refer to instruction manual
- Keep-dry
- FCC ID：2ABG7-DW702
- Type BF applied part
- CE 0123
- The european Union flag
- General warning (not protection against the ingress of water)
- DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- EU REP The represent of European Union

Manufacturer: Truly Instrument Ltd.
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1-3 Wing Yip St., Kwai Chung, N.T.,
Hong Kong

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