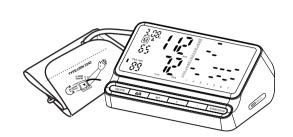
Upper Arm Electronic Blood Pressure Monitor

Model:U80W



Instruction Manual

Safety Information

apoplexy problem, please use under the physician's ▲ Contact your physician for specific information about your

blood pressure. Self diagnosis and treatment which use measured results may be dangerous. Follow the instructions of your physician or licensed health care provider.

A Please place on a high place where children can't be touched.

▲ No modification of this equipment is allowed. ⚠ Do not modify this equipment without authorization of the

⚠ The swallowing of small part like packaging bag, battery,

unit. Please don't hit heavily or fall down the product from a high place. Use the right cuff, otherwise it can notwork.

Never leave any low battery in the battery compartment since

⚠Please take off the battery if you won't use in 3 months. ⚠ Replace the new batteries if the unit display a low battery

Safety Information

⚠ Do not mix the old and new batteries.

⚠ Do not use a cellular phone near the unit. it may result in

⚠ Please avoid using in high radiant area in order to make your measuring data correctly.

⚠ Do not use the equipment where flammable gas (such as anesthetic gas, oxygen or hydrogen) or flammable liquid(such as alcohol) are present.

▲ WARNING:



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

Classification

1. Internally powered equipment; 2. Type BF applied part;

- 3. Protection against ingress of water or Particulate matter: IP21;
- 4. Not category AP/APG equipment;

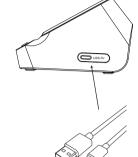
⚠ The user must check that the equipment functions safely and ee that it is in proper working condition before being used.

Battery installation

Type-C Power

Plug the Type-c cable(included) into the charging port(on the right) of the monitor, and connect it to a USB adapter(not included) or your computer or power bank to power the monitor.

Output voltage:5V±5% Output current: At least 600 mA



Proper use of the unit

Measuring procedure:

After the cuff has been appropriately positioned, the measurement can begin

1). Press the START/STOP button, all symbols appear on the display for 1 second. Enter "auto zero" mode, it will display "0" and flashes for two seconds then the pump begins to inflate the cuff, the rising pressure in the cuff is

2). After the suitable pressure has been reached, the pump stops and the pressure gradually falls. The cuff pressure is displayed. In case that the inflation is not sufficient, the device automatically re-inflates to a higher pressure.



3). When the device detects the signal, the heart symbol 🗫 on the display starts to flash

4). When the measurement has been completed, the systolic, diastolic and pulse rate will appear on the display. 5). The measurement readings remain on the display until you switch off the device. If no button is pressed for a period of 3 minutes, the device switches off itself in order to save the power.

Note: The symbol 🗫 will be displayed along with the reading if the irregular heartbeat is detected during the measurement.

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Safety Information

★ Type BF applied part

Manufacturer

■ To assure the correct use of the product, basic safety

and the caution listed in the instruction manual:

measures should always be followed including the warning

Symbol descriptions

The following symbols may appear in this manual, on the label, on

the device, or on it's accessories. Some of the symbols represent

standards and compliances associated with the device and its use

▲ WARNING: This alert identifies hazards that may cause

⚠ CAUTION: This alert identifies hazards that may cause

EC REP Authorized Representative in the European Community.

CAUTION: Consult accompanying documents

CE Mark: conforms to essential requirements of the

 $\underline{\mbox{DISPOSAL:}}$ Do not dispose this product as unsorted

municipal waste. Collection of such waste separately

property damage.

Medical Device Directive 93/42/EEC.

for special treatment is necessary.

Follow instructions for use

serious personal injury or death

minor personal injury, product damage, or

SN Specifies serial number

⚠ Those who have arrhythmia, diabetes, blood circulation or

⚠ If this equipment is modified, appropriate inspection and

testing must be conducted to ensure continued safe use of

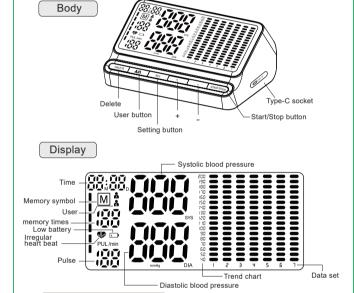
The cuff hose around neck may cause the suffocation.

battery cover and so on may cause the suffocation

⚠ Please don't use a dilution agent, alcohol or petrol to clean the

they may leak and cause damage to the unit

Product structure



Cuff size and connection

The accessories cuff is universal size, for upper-arm circumference 22-42cm(9-17inches) use. The cuff is treated as the applied part.

Insert the connector with cuff tube in to the hole which is on the left side of the device as picture. (Only provided cuff can be used, can not change to any other branded cuff.)



Setting mode

Press the "SET" key to enter a function setting, Press the "+" or "-" key to confirm the function, and press the "SET" key to change the function item.

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The screen displays the following sequence: year, month, day, hour, minute,

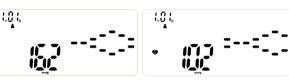


"START/STOP" to confirm the selection.

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Press the " 👗/👗 " key to switch users while the switch is off, and press

Proper use of the unit



Discontinuing a measurement

If it is necessary to interrupt a blood pressure measurement for any reason (eg. the patient feels unwell) the START/STOP button can be pressed at any time. The device immediately decrease the cuff pressure automatically.

Memory-recall of measurements

This blood pressure monitor automatically stores 2x90 sets measurements value, the oldest record will be replaced by the latest measurement value when more than 90 sets each user.

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Introduction

▲ Your new digital blood pressure monitor uses the oscillometric method of blood pressure measurement. This means the monitor detects your blood's movement through your brachial artery and converts the movements into a digital reading. An oscillometric monitor does not need a stethoscope. itor is simple to use.

▲ This automatic blood pressure monitor could measure the systolic pressure, diastolic pressure and pulse, the components are included the body, cuff, printed instruction manual and type-c cable. This unit is intended for adult use.

▲ Intelligent inflation will reduce the uncomfortable feeling by incorrect inflation, and shorten the measurement time, prolonged the cuff's usage lifetime.

▲ 2x90 sets memory function each measurement result will be displayed on the screen, and automatically stored. This unit has blood classification index, could easy to check your blood

▲ Please read the manual carefully before you use the unit, and keep the manual well after using

CONTRAINDICATION

This product can't be used in patients who is with severe heart insufficiency to avoid suffocation and death. This product is not suitable for infants and children.

These automatic blood pressure monitor intended to measurement the systolic pressure, diastolic pressure and pulse rate through upper arm. They are expect used into the home and hospital, intended for over than 12 years old adult using.

Safety Information

⚠ Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away. igwedge If the arm circumference size is beyond the measuring range of

CUFF, it can't be measured and used, then it will cause the blood flowing unsmooth and wrong measurement data. ⚠ Don't kink the connection tube during use, otherwise the cuff

pressure may continuously increase which can prevent blood flow and result in harmful injury to the PATIENT. ⚠ Too frequent measurements can cause injury to the PATIENT

due to blood flow interference. ⚠ Don't apply CUFF over a wound, it can cause further injury to

The device is not suitable for use on neonatal patients, pregnant women, patients with implanted, electronical devices. patients with pre-eclampsia, premature ventricular beats, atrial fibrillation, peripheral, arterial disease and patients undergoing intravascular therapy or arterio-venous shunt or people who received a mastectomy. Please consult your doctor prior to using the unit if you suffer from illnesses.

 \triangle When using this device, please pay attention to the following situation which may interrupt blood flow and influence blood circulation of the patient, thus cause harmful injury to the patient: connection tubing kinking too frequent: the application of the cuff and its pressurization on any arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present; inflating the cuff on the side of a mastectomy ⚠ Do not inflate the cuff on the same limb which other monitoring

could cause temporary loss of function of those ⚠ Please check that operation of the device does not result in

ME equipment is applied around simultaneously, because this

prolonged impairment of patient blood circulation.

Battery installation

Battery installation

Remove the battery cover from the battery compartment, insert the battery. a) Remove the battery cover as picture

b)1PC 18650 lithium battery / 3PCS AA batteries



Low battery and replacement

When the voltage is insufficient, the LED will display " " a low voltage symbol and turn off automatically after 10 seconds, at which time the action of blood pressure measurement cannot be performed. Connect the TYPE C or replace the battery for normal use.

Battery type and replacement

1PC 18650 lithium battery / 3PCS AA batteries Please remove the batteries if you do not need to use for long time.

▲ WARNING:

Dry battery and 18650 battery cannot be loaded at the same time

Turn the unit off before replacing the batteries.

Proper use of the unit

Measurement

Pre-measurement

- Relax for about five to ten minutes prior to the measurement Avoid eating, drinking alcohol, smoking, exercising and bathing for 30 minutes before taking a measurement.
- All these factors will influence the measurement result. • Remove any garment that fits closely to your upper arm.
- Always measure on the same arm (normally left).
- Take measurement regularly at the same time of every day, as blood pressure changes even during the day.

Common factors of wrong measurement

- All efforts by the patient to support their arm can increase
- Make sure you are in a comfortable, relax position and do not activate any of the muscles in the measurement arm during measurement. Use a cushion for support if necessary. • If the arm artery lies lower or higher than the heart, a false
- reading will be obtained.

- Only use clinically approved cuffs! A loose cuff or a exposed bladder causes false reading.
- with repeated measurements, blood accumulates in the arm
- which can lead to false reading. Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away.

Proper use of the unit

Fitting the cuff

1). Put the cuff on a table flatly with the velcro side down. Pass the end of the cuff through the metal loop so that a circle is formed. The velcro closer will now be facing outwards (ignore this step if the cuff has already been prepared).

2). Push the cuff over the left upper arm so that the tube points in the direction of the lower arm

3). Wrap the cuff around the arm as shown in the picture. Make sure that the distance between the cuff trachea turret and the elbow Joint is about 2-3cm (1 inch).

4). Tighten the free end of the cuff and close the cuff by affixing the velcro.

5). The cuff should be snug on your upper arm so That you can fit 2 fingers between the cuff and your upper arm. Any piece of clothing restricts the arm which must be taken off.

6). Secure the cuff with the velcro closer in such a way that it lies comfortably and not too tight. Lay your arm on a table (palm upwards) so that the cuff is at the same height as the heart. Do not bend the tube.

If it is not possible to fit the cuff to your left arm, it can also be placed on the right. However, all measurements should be made using the same arm.



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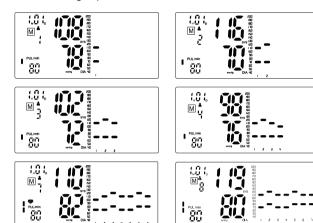
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About the test results

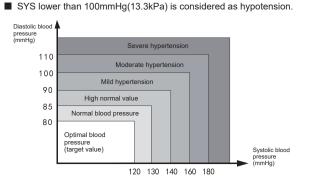
- The cuff pressure leaks immediately at the end of the equivalent
- The measurements are shown on the LED and to the right is the blood pressure range chart (1-7 memory groups are shown from left to right, when the 8th data is measured the graph moves to the left so the last measurement is always on the far right, while the last 7 measurements
- If an arrhythmia is detected, the screen displays 🐶 the symbol of an irregular heartbeat.

After the measurement, the intermediate pressure scale (40~200) is all lit

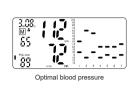
The display effect is curve (the middle lattice light light is not this, only the head and tail 2 grids)



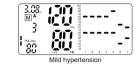
■ According to the blood pressure classification by the WHO/ISH.

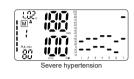


Blood pressure type



Exceptional situations





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Specification

Description	Upper arm electronic blood pressure monitor				
Display	LED digital display				
Measuring principle	Oscillometric method				
Measuring localization	Upper arm				
Measurement	Pressure	0~299 mmHg			
range	Pulse	40~199 pulses/min			
Accuracy	Pressure	±3mmHg			
Accuracy	Pulse	±5% of reading			
	Pressure	3 digits display of mmHg			
LED indication	Pulse	3 digits display			
	Symbol	Memory / Heartbeat / Low battery			
Memory function	2x90 sets memory of measurement values				
Power source	Type-C cable /1PC 18650 lithium battery / 3PCS AA batteries				
Automatic power off	In 3 minutes				
Main unit weight	Approx. 400g				
Main unit size	170mm x 118mm x 75mm				
Main unit lifetime	10,000 times under normal use				
Accessories	Cuff, instruction manual				
	Temperature	5~40°C			
Operating environment	Humidity	15%~93%RH			
	Air pressure	86kPa~106kPa			
Storage environment	Air pressure: 86kPa~106kPa Temperature: -20°C~55°C , Humidity: 10%~93%RH avoid crash, sun burn or rain during transportation.				
Expected service life	5 years				
Software Ver	UA1.0				

service life.

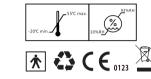
EMC Declaration

Guidance and manufacturer's declaration - electromagnetic emissions				
Emissions test Compliance				
RF emissions CISPR 11	Group 1			
RF emissions CISPR 11	Class B			
Harmonic emissions IEC 61000-3-2	Class A			
Voltage fluctuations / flicker emissions IEC 61000-3-3	Compliance			

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1. all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted

2. Guidance and manufacturer's declaration -electromagnetic emissions and



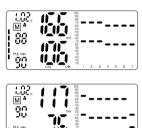
Rev.00

About the test results

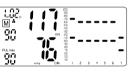
Read memory record

●Picture display order: if the current is 7 group of memory, at this time, press the "+" button, the display set of measurements, 8 LED bar histogram advance display corresponding scale to the left, if at this time to press the "-" key "memory number back to the seventh group, advance display corresponding scale histogram to the right, and so on.

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C. clear memory:

Press + or - to enter the memory query page. Select the number of memory groups to delete.

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Exceptional Situation

Error indicators

■ The following symbol will appear on the display when measuring abnormal

Symbol	Cause	Correction
E- 1	weak signal or pressure change	Wrap the cuff properly.
	suddenly Out of range indicates HI	with a correct way.
E-2 External strong		When near cell phone or other high radiant device, the measurement will be failed.
	disturbance	Keep quite and no chatting when measure.
E-3 during th	It appears error	Wrap the cuff properly.
	during the process of	Make sure that the air plug is properly inserted in the unit.
	'	Remeasure.
E-5	Abnormal blood pressure	Repeat the measurement after relax for 30 mins, if get unusual readings for 3 times, please contact your doctor.
<u></u>	Low battery	Replace all the worn batteries with new ones.

Trouble	removal

Problem	Check	Cause and solutions	
No power	Check the battery power	Replace new one	
	Check the polarity position	Installation for proper placement of the batteries polarities	
No inflation	Whether the plug insert	Insert into the air socket tightly	
	Whether the plug broken or leak	Change a new cuff	
Err and stop working	Whether move the arm when inflate	Keep the body peaceful	
	Check if chatting when measured	Keep quite when measure	
Cuff leak	Whether the cuff wrap too loose	Wrap the cuff tightly	
Cuirieak	Whether the cuff broken	Change a new cuff	
A Please contact th unit by yourself!	e distributor if you can't solve the p	roblem, do not disassemble the	

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Warranty information

Statement

■ The intended use: the unit is intended to be used by adults at home or medical center to measure blood pressure and pulse rate from the upper arm.

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- The device meets the requirements of IEC 80601-2-30 Part 2 for non-invasive blood pressure monitors.
- Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff /stethoscope auscultatory method, within the limit sprescribed by the American National Standard, manual, electronic, or automated sphygmomanometers.
- The risk of patient and user can be lowered to acceptable level.

Warranty Information

- The unit is guaranteed to be free of defects in workmanship and materials under normal use for a period of Two Years from the date listed on the purchase record.
- For repair under this warranty. Our authorized service agent must be advised of the fault with the period of the warranty. This warranty covers parts and labor only under normal operations. Any defect resulting from natural causes, eg. flood, hurricane etc, is not within this guarantee. This guaranty does not cover damage incurred By use of the unit not in accordance with the instructions, accidental damage,
- or being tampered with or serviced by unauthorized service agents. ■ Monitor subjected to misuse, abuse, and neglect of these manual content. non-instructional purposes; unauthorized repair or modifications will be excluded from this warranty.
- ⚠ The device is not repairable and contains no user serviceable parts.

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EMC Declaration

Table 2

Immunity Test	IEC 60601-1-2 Test level	electromagnetic Immunity Compliance level		
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 k' air		
Electrical fast transient/burst IEC 61000-4-4	Power supply lines: ±2 kV 100 kHz repetition frequency	Power supply lines: ±2 kV 100 kHz repetition frequency		
Surge IEC 61000-4-5	line(s) to line(s): ±1 kV.	line(s) to line(s): ±1 kV.		
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% 0.5 cycle At 0°, 45 °, 90 °, 135 °, 180 °, 225 °, 270 ° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	0% 0.5 cycle At 0°, 45 °, 90 °, 135 °, 180 225 °, 270 ° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle		
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz		
Conduced RF IEC61000-4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateu radio bands) 80% Am at 1kHz		
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz		

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About the test results

- C1. Press + or to enter the single group memory screen. The screen displays Single Data. Press DELETE to confirm the deletion.
- C2. On the screen for deleting a single memory group, press DELETE again. "ALL" is displayed. "\$/\$" Press "to delete all memory groups
- C3, at any interface, press "START/STOP" to exit the shutdown directly (No operation is performed on the View memory page for 30S)



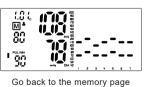


Single group memory deletion

All memory erasure

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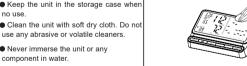




Care and maintenance

Care for the main unit and blood pressure monitor cuff

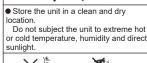
● Keep the unit in the storage case whe ● Clean the unit with soft dry cloth. Do no

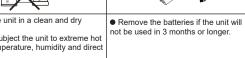


- Never immerse the unit or any component in water. • Make sure the monitor is off prior to cleaning, a mixture of distilled water and 10 percent bleach could be used.
- Using a spray bottle, moisten a soft cloth towel with the bleach or detergent mix until it is fully saturated. Squeeze any excess moisture from the cloth to avoid any dripping or potential over saturation of the cuff.
- Wipe all surfaces of the blood pressure monitor cuff thoroughly, aking sure to clean the inside and outside of the cuff. Be cautious not to get any moisture in the main unit. Using a dry cloth, gently wipe away any excess moisture that may remain on the blood pressure cuff. Lay the cuff flat in an unrolled position and allow the cuff to air dry.

Maintenace

Do not clean the body and cuff with
 Do not wet the cuff or attempt to clean







** We won't be responsible for any quality problem if you don't care and maintain the product as instructed.

EMC Declaration

IEC 60601-1-2:2014 ME EQUIPMENT and ME SYSTEMS identification, marking and documents for Class B product

Instructions for use

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

Warning: Don't near active HF surgical equipment and the RF shielded room of an $\ensuremath{\mathsf{ME}}$ system for magnetic resonance imaging, where the intensity of $\ensuremath{\mathsf{EM}}$ disturbances is high.

Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the blood pressure monitor, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

If any: a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

If any: the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE"

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EMC Declaration

Guidar	nce and	manufa	acturer's declar	ation - electro	magne	tic Imr	nunity
	Test Frequ ency (MHz)	Band (MHz)	Service	Modulation	Modu lation (W)	Dista nce (m)	IMMUNI TY TEST LEVEL (V/m)
	385	380 - 390	TETRA 400	Pulse modulation 18 Hz	1,8	0.3	27
Radiated RF IEC61000 -4-3 (Test specifica- tions for ENCLO-	450	430 - 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	2	0.3	28
	710 745 780	704 - 787	LTE Band 13, 17	Pulse modulation 217 Hz	0,2	0.3	9
SURE	810	800 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28
PORT IMMUNITY to RF wireless communications equipment)	870						
	930						
	1720	1700 - 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28
	1845						
	1970						
	2450	2400 _ 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
	5240	5100 - 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0,2	0.3	9
	5500						
	5785						

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