Upper Arm Electronic Blood Pressure Monitor

Model:U81RH



Instruction Manual

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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, so the monitor is simple to use.
- ▲ Intelligent inflation will reduce the uncomfortable feeling by incorrect inflation, and shorten the measurement time, prolong the cutt's usage lifetime.
- ▲ 2x500sets 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

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

This automatic blood pressure monitor intends to measure the systolic pressure, diastolic pressure and pulse rate through upper arm. It's expected to be used at home or in the hospital, intended for people over 12 years old.

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

Safety Information

■ To assure the correct use of the product, basic safety measures should always be followed including the warning and the caution listed in the instruction manual

The following symbols may appear in this manual, on the label on the device, or on it's accessories. Some of the symbol represent standards and compliances associated with the device

▲ WARNING: This alert identifies hazards that may cause serious personal injury or death

⚠ CAUTION: This alert identifies hazards that may cause minor personal injury, product damage, or property damage.

★ Type BF applied part

Manufacturer

EC REP Authorized Representative in the European Community

SN Specifies serial number

CE Mark: conforms to essential requirements of the Medical Device Directive 93/42/EEC.

DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

Direct current

(3) Follow instructions for use

▲ CAUTION: Consult accompanying documents

Safety Information

⚠ Those who have arrhythmia, diabetes, blood circulation or 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 healthcare

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

A No modification of this equipment is allowed.

⚠ Do not modify this equipment without authorization of the

⚠ 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.

The swallowing of small part like packaging bag, battery, battery cover and so on may cause the suffocation

⚠ Please don't use a dilution agent, alcohol or petrol to clean the unit. Please don't hit heavily or fall down the product from a high place. Use the right cuff, otherwise it can not

⚠ Never leave any low battery in the battery compartment

⚠ Please take off the battery if you won't use in 3 months.

A Replace the new batteries if the unit display a low battery

Safety Information

 \triangle 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.

Alf 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

⚠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

⚠Do not inflate the cuff on the same limb which other monitoring ME equipment is applied around simultaneously, because this could cause temporary loss of function of those.

⚠Please check that operation of the device does not result in prolonged impairment of patient blood circulation

Safety Information

↑ Do not mix the old and new batteries.

⚠ Do not use a cellular phone near the unit. It may result in operational failure.

⚠ 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

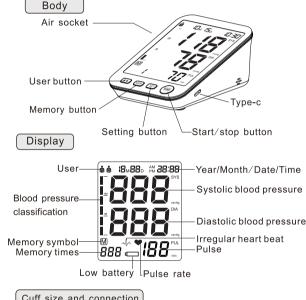
municipal waste, use separate collection facilities Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being

Classification

- Internally powered equipment;
 Type BF applied part;
- 3. Protection against ingress of water or Particulate matter IP21;
 4. Not category AP /APG equipment;
- 5. Mode of operation: Continuous operation
- 🛕 The user must check that the equipment functions safely and

see that it is in proper working condition before being used.

Product structure



Cuff size and connection

The accessories cuff is L size, for upper-arm circumference 22- 42cm use. The cuff is treated as the applied part Insert the connector with cuff tube into 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.)

Remove the battery cover from the battery

a) Remove the battery cover as picture

Low battery and replacement

Battery type and replacement

Please use 4pcs AAA identical 1.5V alkaline batteries.

Do not use the batteries beyond their expiry date.

b) Insert 4 AAA powerful batteries into the

compartment and ensure each battery is

When power on, the low battery symbol $\ \ \ \ \ \ \ \ \$ will display once

the unit start to work, and you must replace with new batteries.

Please remove the batteries if you do not need to use for long

Dispose of the battery in accordance with all federal, state and

local laws. To avoid fire and explosion hazard, do not burn or

Battery installation

compartment, insert the battery,

in the proper direction.

otherwise the unit can't work

Battery installation

showed.

M WARNING:

Setting mode

Battery installation

1. When optional AC adapter should comply with the requirement of

IEC 60601-1:2005. Furthermore all configurations shall comply with

the requirements for medical electrical systems (see IEC 60601-1-1

or clause 16 of the 3Ed. of IEC 60601-1, respectively). Anybody

connecting additional equipment to medical electrical equipment

configures a medical system and is therefore responsible that the

systems. Attention is drawn to the fact that local laws take priority

over the above mentioned requirements. If in doubt, consult your

the compartment before using the mains part. Equipment class 2.

2. This device is double insulated and protected against short circuit and

overload by a primary thermal fuse. Make sure to take the batteries out of

3. When using AC power, to avoid possible damage to the monitor, use only

4. Insert the adapter plug into the hole on the backside of the unit as picture

6. To remove the AC adapter, disconnect the adapter plug from the outlet

the exclusive AC adapter that can be purchased from authorized dealers.

system complies with the requirements for medical electrical

local representative or the technical service department.

Other adapters may vary in output voltage and polarities.

first and then disconnect the cord from the unit's socket.

Adapter technical features:

Output voltage: type-c 5V

Output current: At least 600 mA

Adapter usage (option)

· When use AC adapter, the power of battery won't be consumed. \cdot When suddenly stop during measurement (like the plug off from

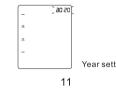
the outlet by carelessness) , it must be reinserted the plug into the $% \left(1\right) =\left(1\right) \left(1$ unit, and restart the measurement.

How to set

Press button SET when power off , the screen will display $\hat{\mathbf{n}}$ or $\hat{\mathbf{n}}$, press button MEM ,it will be changed between 🛔 and 🟚 , press button SET when you confirm the user, then it will enter into the year setting mode



Continue to above step, the screen will display and flash 20XX, the last digit of the year will increase 1 when press button MEM each time, you could choose from 2020 to 2099. Press button SET when you confirm the year, then it will enter into the month and date setting mode



3. Month and date setting

Setting mode

Continue to above step, the screen will display xxMxxD and xxxx, and keep flashing on month , the digit will increase 1 when press button $\,\text{MEM}\,\text{each}\,$ time, you could choose from 1 to 12. Press button SET when you confirm the month, then it will set the date. Same as the month setting each time you press button $\ensuremath{\mathsf{MEM}}$, the digit will keep changing from 01 to 31. Press button SET when you confirm the date, then it will enter into the time setting mode



Month setting

4. Time setting Continue to above step, the screen will display xxMxxD and xx:xx, and

keep flashing on the digits of hour, the digit will increase 1 when press button MEM each time, you could choose from 0 to 23. Press button SET when you confirm the hour, then the digits of minute start to flash, same as the hour setting , each time you press button MEM the digits will keep changing from 00 to 59. Press button SET when you confirm the minute, then the total setting mode is completed.

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Date setting

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 blood pressure.
- Make sure you are in a comfortable, relax position and do not activate any of the muscles in the measurement arm, don't legs uncrossed, keep the feel flat on floor, back and arm supported 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.

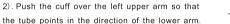
- Only use clinically approved cuffs!
- A loose cuff or a exposed bladder causes false reading.
- With repeated measurements, blood accumulates in the arm which can lead to false reading.
- Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held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

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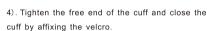
Proper use of the unit

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).



3). Wrap the cuff on the arm as illustrated. Make certain that the lower edge of the cuff lies approximately 2 to 3 cm above the elbow and the rubber tube leaves the



cuff on the inner side of the arm.

5). The cuff should be snug on your upper arm so That you can fit 2 fingers between the cuff and you 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



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

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1 18

Proper use of the unit

Measuring procedure

After the cuff has been appropriately positioned, the 1). Press the START/STOP button, all symbols appear on

the display , then the pump begins to inflate the cuff, the rising pressure in the cuff is shown on the display. 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 no

sufficient, the device automatically re-inflates to a highe

3). When the device detects the signal, the heart symbol • on the display starts to flash 4). When the measurement has been co the systolic, diastolic and pulse rate will appea

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.

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

Read memory record

Press the button MEM when power off, the latest 3 times average value will be shown, press the button MEM again, the last measurement value will be shown, as well as subsequent measurements can be display one after the other by pressing the button MEM each time.

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6 ... d

About blood pressure









Memory -clear of measurements

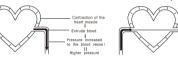
If you are sure that you want to permanently remove all stored memories. Press the button SET for 7 times until CL appears when power off, press the START/STOP button, CL will flash for 3 times to clear all the memories. After this press button MEM, $\boxed{\mathsf{M}}$ and "no" will be shown on the display which mean that no memory in store.

About blood pressure

Blood pressure is the pressure exerted the arteries. The systolic blood pressure value represents the blood pressure produced by contraction of the heart muscle

The diastolic blood pressure value represents the blood pressure produced by relaxation of the heart muscle.





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Care and maintenance

Care for the main unit and blood pressure monitor cuff

no use.

Clean the unit with soft dry cloth. Do not use any abrasive or volatile

omponent 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 oversaturation of the

 Wipe all surfaces of the blood pressure monitor cuff thoroughly, naking 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 wet the cuff or attempt to clean the cuff with water. Do not clean the body and cuff with naphtha, thinner or gasoline etc Remove the batteries if the unit will not be Do not subject the unit to extreme hot of

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product as instructed.

EMC Declaration

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

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments

Warning Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances

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.

Warning: Use of accessories, transducers and cables other than those specified 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

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). OR TYPE REFERENCE).

If any the performance of the ME EQUIPMENT or ME SYSTEM that was mined 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" need not be used).

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EMC Declaration

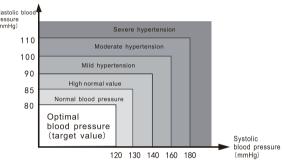
Guidance and manufacturer's declaration - electromagnetic Immunity							
	Test Frequ ency (MHz)	Ban d (MH z)	Service	Modulation	Mod ulati on (W)	Dist anc e (m)	IMMUN ITY TEST LEVEL (V/m)
	385	380 -390	TETRA 400	Pulse modulation 18 Hz	1,8	0.3	27
Radiated RF IEC6100 0-4-3	450	430 – 470	GMRS 460, FRS 460	FM ±5 kHz deviation 1 kHz sine	2	0.3	28
(Test	710	704	LTE Bond 12	Pulse	0,2	0.3	9
specificat ions for	745	_ 787	LTE Band 13, 17	modulation			
ENCLOS	780	181	GSM 800/900,	217 Hz			
URE	810	800	TETRA 800. Pulse			1	
PORT IMMUNI	870		iDEN 820,	modulation 18 Hz	2	0.3	28
TY to	930	960	CDMA 850, LTE Band 5				
RF wireless	1720		GSM 1800;				
communi	1845	1700		CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	2	0.3	28
cations equipme nt)	1970	1990	DECT; LTE Band 1, 3,				
	2450	2400 _ 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
	5240		WLAN 802.11	Dulan	0,2	0.3	9
	5500	5100		Pulse modulation 217 Hz			
	5785	5800	a/n				

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About blood pressure

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

■ SYS lower than 100mmHg(13.3kPa) is considered as hypotension.



■ Blood pressure type















Correction

Replace all the worn batteries with new ones.

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Exceptional Situation

Cause

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

Symbol

Weak signal or Wrap the cuff properly. E- 1 suddenly Out of range indicates HI With a correct way. External strong device , the measurement will be failed. disturbance Keep quite and no chatting when measure.

It appears error Wrap the cuff properly. Make sure that the air plug is inserted in the unit. inflating Remeasure. E-5 Abnormal blood pressure Repeat the measurement after relax for 30 mins , if ge unusual readings for 3 times, please contact your doctor. Repeat the measurement after relax for 30 mins , if get

□ Low battery Trouble removal

Touble Tellioval				
Problem	Check	Cause and solutions		
No power	Check the battery power	Replace new one		
No power	Check the polarity position	Installation for proper placement of the batteries polarities		
	Whether the plug insert	Insert into the air socket tightly		
No inflation	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		
Cuil leak	Whether the cuff broken	Change a new cuff		
Please contact the	distributor if you can't solve the	problem, do not disassemble the		

Specification

Description	Automatic upper arm blood pressure monitor		
Display	LCD digital display		
Measuring principle	Oscillometric method		
Measuring loca ization	Upper arm		
Measurement range	Pressure	0~299 mmHg	
	Pulse	40~199 pulses/min	
Accuracy	Pressure	±3mmHg	
/ loodrady	Pulse	±5% of reading	
LCD	Pressure	3 digits display of mmHg	
indication	Pulse	3 digits display	
İ	Symbol	Memory/Heartbeat/Low battery	
Memory function	2x500 sets memory of measurement values		
Power source	4pcs AAA alkaline battery(not included) / type-c 5V		
Automatic power off	In 3 minutes		
Main unit weight	Approx.230g (batteries not included)		
Main unit size	L124mm X W95mm X H52mm		
Main unit lifetime	10,000 times under normal use		
Battery life	Could be used for 300 times for normal condition		
Accessories	Cuff, instruction manual		
Operating environment	Temperature	5~40°C	
	Humidity	15% ~ 93%RH	
	Air pressure	86kPa ~ 106kPa	
Storage environment	Air pressure: 86kPa ~ 106kPa Temperature: -20°C ~ 55°C, Humidity: 10% ~ 93% avoid crash, sun burn or rainduring transportation.		
Expected service life	5 years		
Software Ver	UA1.0		

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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
- The unit satisfies the requirements of EN ISO 81060-1 Part 1 Noninvasive sphygmomanometers, EN 1060-3:1997+A2:2009 Non-invasive sphygmomanometers. IEC80601-2-30 Part 2 Non-invasive sphygmomanometers.
- Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultatory method, within the limits prescribed 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
- 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 requires no calibration.

The device is not repairable and contains no user serviceable parts.

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EMC Declaration

Technical description

1.all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life. 2. Guidance and manufacturer's declaration -electromagnetic emissions and

Table 1

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	

Smilecare

Upper Arm Electronic Blood Pressure Monitor

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Rev.00

EMC Declaration

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity				
Immunity Test	IEC 60601-1-2 Test level	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 kV 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) ±0.5kV ±1 kV.	line(s) to line(s) ±0.5kV ±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% 250 cycle 50Hz	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% 250 cycle 50Hz		
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 amateur 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		
NOTE U _T is the a	.c. mians voltage prior to applicati	on of the test level.		

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