



WECARDIO
TECHNOLOGIES

ECG EVENT RECORDER

User's Manual for recorder



TO USE THE ECG EVENT RECORDER

You will need:

- > A Smartphone or an iPad (with Bluetooth & Wifi/Data on)
- > The ECG Event recorder
- > The AIRCardio APP

<Note: the smart phone shall support Bluetooth 4.0, Android 4.3+ or IOS>

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Declaration of Conformity:

Conformance to Standards – non-clinical testing demonstrated conformance to voluntary safety IEC60601-1 and to IEC60601-1-2-2014 Class IIa.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses 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:

- 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 the 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.

BORSAM Biomedical Instruments Co., Ltd.'s Quality System conforms to 21 CFR 820 and ISO13485:2012

Danger :

Equipment not suitable for use in the presence of flammable anesthetic mixture with air or with Oxygen or Nitrous Oxide.

Contraindications:

There are no potential adverse effects of the ECG-Event Recorder on health.

Description:

This guide describes the ECG Event Recorder to use, and related cleaning and maintenance operations.

The metal sheets on the side and front is the position of application part.

Patients can safely use the ECG signal collection function of the device; The device does not have unsafe functions.

Classification:

Class II / Internally powered equipment;

Type BF applied part;

IP22;

Continuous operation mode

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OVERVIEW:

[Intended use]

The produce is intended to use at temperature of $+5^{\circ}\text{C}$ ~ $+40^{\circ}\text{C}$, relative humidity of 25% to 93% (without condensation). **ECG event recorder is suitable for real-time ECG signal acquisition 、 Storage and wireless transmission of patients with arrhythmia.**

Note: The above indications for use of the ECG Event Recorder monitoring stations is to provide a reference for medical diagnosis, not a replacement for diagnostic clinicians.

[Accessories]

- 1x ECG Event Recorder
- 1x Strap
- 1xUSB Charger cable
- 1xUser manual
- 1xWarranty Card
- 1xBox

[Specifications]

Model: WeCardio UN ; WeCardio WF

Size: 87mm×49mm×7mm ; 90mm×50mm×10mm

Weight (with battery) : 33g; 38g

Carton: PC plastic

Battery: lithium ion battery/d.c.3.7V

Working hours: 8 hours (approximately 480 recordings)

Bandwidth: 0.5Hz – 40Hz

Input Impedance: ≥ 3.0 Mohm

Input range: 0.05~6 mV

Sample Rate: 200 Hz

Sampling precision: 12 bits

Transmission mode: Bluetooth 4.0

Recording: 30 seconds, single-lead ECG

[Operating conditions]

Temperature: $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$

Humidity: 25% to 93% RH (without condensation)

Pressure altitude: 700 hPa to 1060 hPa

[Storage and shipping conditions]

Temperature: -25°C to 55°C

Humidity: 15% to 93% RH (without condensation)

Pressure altitude: 700 hPa to 1060 hPa

TO GET STARTED:

[Download APP]

1. For Android system:

Go to “Google Play” and search the “WECARDIO” .

Use the download link:

<http://www.bioxtime.com/download/wecardio.apk>

2. For Apple IOS system:

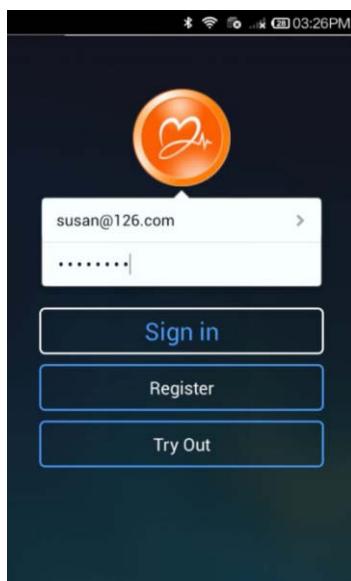
Go to "App Store" and search "WECARDIO"

3. Scan the following QR Code



[User Log in]

1. Register



Register free with your email.

2. Sign In

If registered already, input the user name and password directly to access.

Click the > on the right of the user name bar, you will find all the users name ever log in.

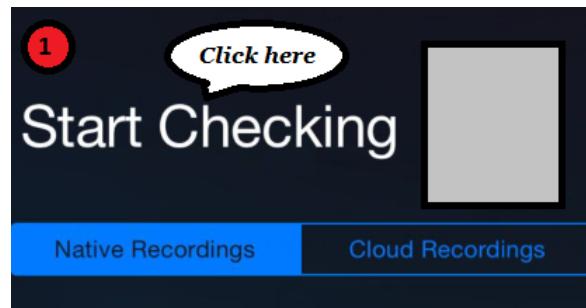
You can select or add.

3. Try Out

Please click "Try Out" for checking. (It is for testing only, cannot feedback any results.)

[Bluetooth paring your device]

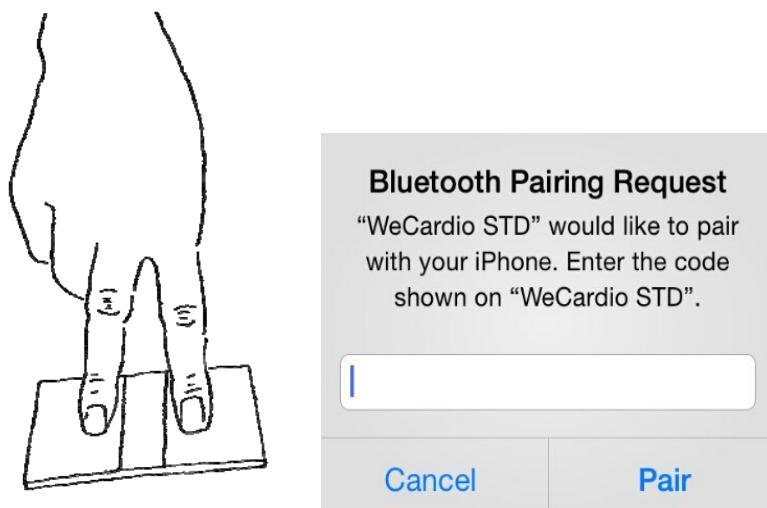
1. Enter to the Application



↓

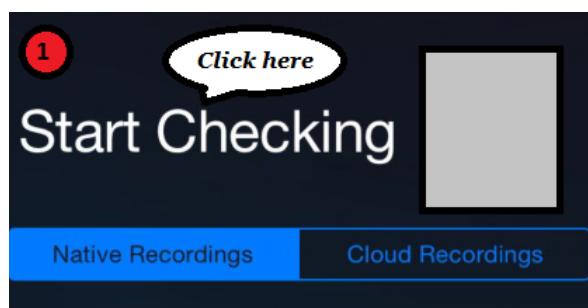


2. With two fingers touching the two metal pads, wait the light turning red. App will pop up and ask enter the paring code. Still keep fingers on the metal pads and use another hand to input Bluetooth Pin "000000"



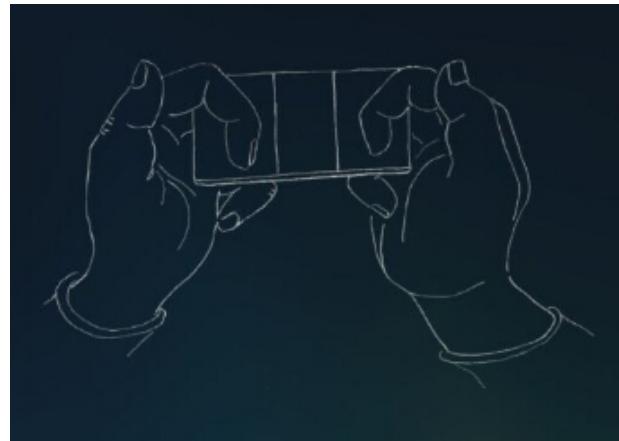
[Arrhythmia Check]

1. Start the Arrhythmia checking

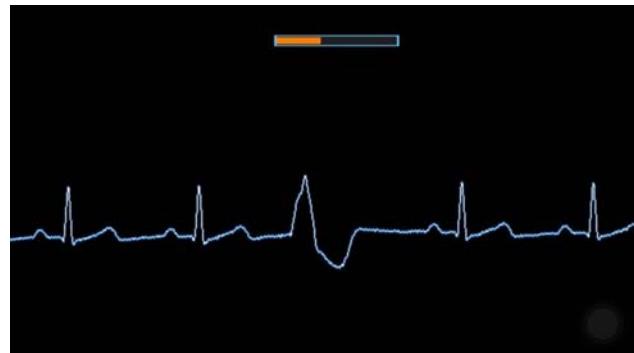




2. Forefinger and middle finger of both hands gently grip the metal sheet, leaning hands on the desktop or the thigh, maintain a relaxed state, do not push too hard.



3. Waiting to finish the progress bar. Please don't talk or move, keep relaxing



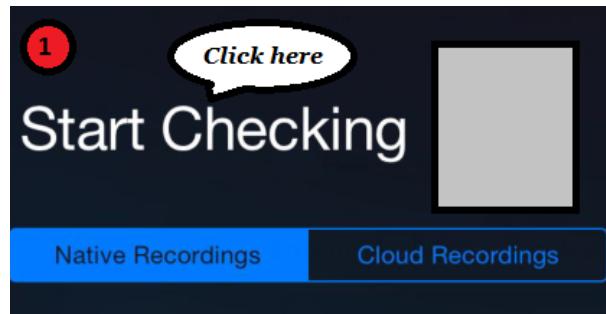
4. Select the Symptoms during checking

5. Display the wave forms, return to the recording list and wait for update.

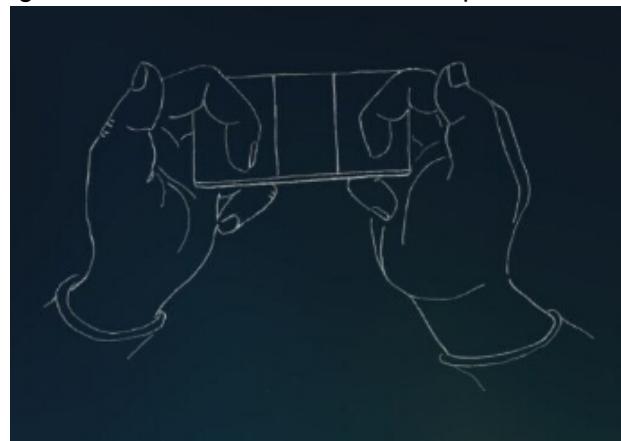
[ST Check]

Note: Regular ST check every week is great help on heart health evaluation. If your Doctor has special advice for checking, please follow the doctor's advice.

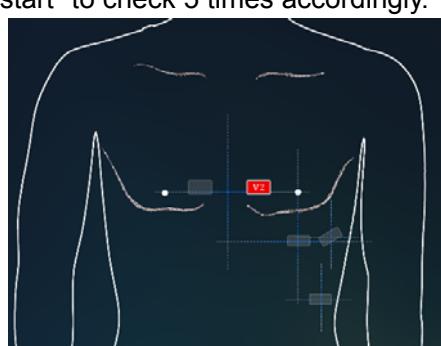
1. Start ST checking



2. Forefinger and middle finger of both hands gently grip the metal sheet, leaning hands on the desktop or the thigh, maintain a relaxed state, do not push too hard.



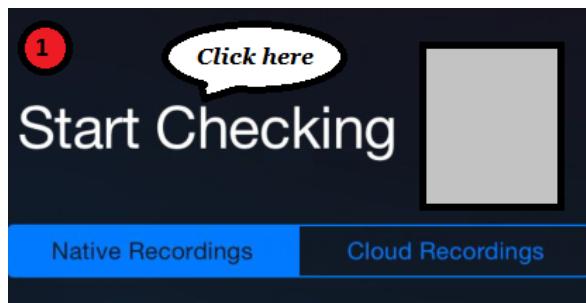
3. Keep clamping the device with right Forefinger, and put side electrode at the 6 position (I II V1 V2 V4 V6) one by one in the picture, if the light don't show red, please slightly wet the skin. If ready, please click "start" to check 5 times accordingly.



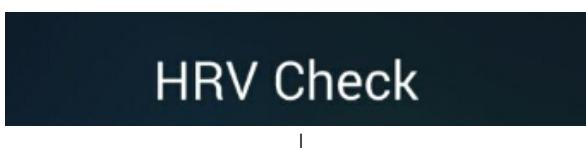
4. Select the Symptoms during checking
5. Display the wave forms, return to the recording list and wait for update.

[HRV/ANS Check]

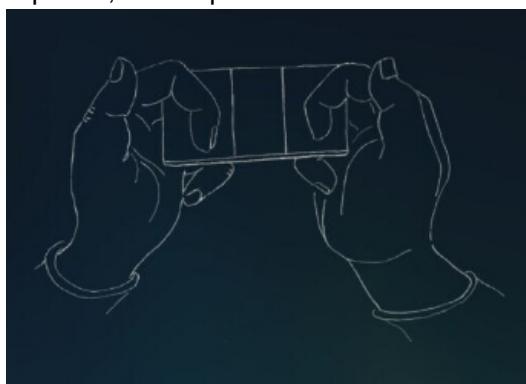
Note: HRV/ANS check is to evaluate the Self-regulation capability of heart. For the users with high working pressure, too much social engagement, mental stress or poor sleep, please check HRV once every two weeks.



1. Start HRV/ANS checking



2. Forefinger and middle finger of both hands gently grip the metal sheet, since this checking will need 5 minutes, please find a comfortable pose to maintain a relaxed state until the progress bar completed, do not push too hard.



3. Select the Symptoms during checking

4. Display the wave forms, return to the recording list and wait for update.

[Recording List]

a). Local Recordings

Local Recordings is the data stored in your mobile phone. Please note the local recordings will be removed when clearing the phone cache.

Pull down the page to get date updated. If there are checking results returned, it will show icon with different color. Green: stable heart rate; Red: arrhythmia, please double check; Yellow: Artifact, please check again.

Note: we suggest to go hospital for detailed checking when the results stick to red even though you keep not moving and the ECG waveform is flat.

Click one recording to get details:

- a.Moving the cursor to the left or right to view waveform
- b.Zooming to view the waveform
- c.Clicking “PDF”to download the report.Users can also mail to the report to the doctor.

b).Cloud Recordings

Cloud Recordings is the data been successfully uploaded to our server. The cloud recordings will be emptied when clearing the phone cache, but can be re-downloaded when pull down the page.

[Setting]

1. Setting

Click “My” (shown in the bottom of the page) and enter to setting page.

a. Time of Checking

You can choose the checking time, 10 seconds, 30 seconds, etc.

b. Device Selection

Please connect the device again when you change device. Click “Device Selection” and keep your finger on the 2 metal sheets, then you will see the device name. Click the name to connect.

c. My Account

Enter “My Account” page to change password.

2. Account Switches

Click the > on the right of the user name bar, you will find all the users name ever logged in.

You can select or add. Good for family members.

[Notice]

The computer or any device to connect the USB charging cable must be in accordance with the IEC60950 certification.

[WHO SHOULD USE THE DEVICE]

In order to use this device, you must be able to perform all of the following:

- Understand principle of operation described in this manual
- Speak and understand English
- Place the ECG Event Recorder in your hands or on your chest, hold it for at least 30 seconds
- Operate a ECG Event Recorder and the Web Center application
- Operate simple push-buttons

Due to the possible seriousness of the abnormal heart rhythms that can be associated with these conditions, persons with the following conditions should consult their physician before using this device:

- Coronary heart disease
- Valvular heart disease
- Heart transplant
- Heart failure

[WARNING]!

ECG Event Recorder is not a diagnostic device. This single lead ECG, which is measured using ECG event recorder, should not be used for diagnostic in comparison to the standard 12 lead ECG recorder obtained with typical electrode placement. This device should not be used with pacemakers or implanted defibrillators and cannot predict or diagnose a heart attack or be used for chest pain monitoring. The ECG Event Recorder is not a defibrillation-proof device.

To prevent fire or shock hazard, do not expose the unit to rain or moisture. Refer servicing to qualified personnel only.

The device is charged by USB with voltage DC 5V. Please use charger passed GB 9706.1 or IEC 60601-1. Please note that the device will not work properly during charging.

To avoid poor data recordings, please recharge the device when mobile telecom equipment indicates low power of the device.

The Software working together with the ECG Event Recorder is ECG Holter Analysis system, Model eCardio7.0, which is composed of special analysis module & transmission management module. This analysis system is not a part of the ECG Event Recorder.

The device will not be used in surgical operation, and not used together with high frequency electrotome.

Equipment may not be used with acidic or alkaline etc corrosive liquid to clean.
The user's can't repair the device by themselves.

[REGULATORY COMPLIANCE]

Conformance to Standards - TEST REPORT IEC60601-1, IEC60601-1-11 & IEC 60601-2-25 for Medical electrical equipment.

This device complies with the FCC Rules and with EMC & R&TTE. Also, it passes the Biological Evaluation Test and has CE mark.

BORSAM Biomedical Instruments Co., Ltd.'s Quality System conforms to ISO13485 issued by TUV SUD.

MAINTENANCE:

[BATTERY]

Caution: Use only rechargeable Lithium batteries.

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

1. Please contact us if battery replacement needed.
2. Charge the battery with the certified charging cable provided by BORSAM.
3. Charging the device: please charge the device with dedicated charging cable; charging voltage: DC 5V, charging current: 115mA

[CARING FOR YOUR ECG EVENT RECORDER]

Do not open or attempt to repair your ECG Event Recorder by yourself. Only authorized service personnel may repair.

Do not drop your ECG Event Recorder or subject it to severe impacts. Bending the body can damage the circuitry. Do not use extreme force when pressing the display or keys.

Do not use solvents to clean your ECG Event Recorder. Use only a soft, dry cloth.

[ENVIRONMENT]

Keep away from extreme heat. Do not leave it on the dashboard of a car or near a heater. Do not leave it in any place that is extremely damp or dusty.

As this product is not waterproof, do not use it or store it at place where fluids such as water can splash onto it. Raindrops, water spray, juice, coffee, steam, perspiration, etc. may also

cause a malfunction.

Keep accessories that might be swallowed away from children.

[PRECAUTIONS]

Warning: Dispose of all used batteries in a proper waste disposal in accordance with local regulation. Used batteries must not be discarded in the normal trash.

[PREVENTIVE MAINTENANCE]

The following simple preventive maintenance tasks should be performed monthly to ensure continued performance of the device at maximum capacity, and to reduce the possibility of a failure.

[CLEANING]

- Clean outside of the device only, using a lint-free dry cloth.
- Do not allow any liquid to enter the device, and avoid pouring water or other liquids on the device while cleaning.
- Never use a brasives such as wire-wool or metal polish.
- During cleaning, make sure you do not expose the device to temperatures in excess of 45°C(113°F).

[EXPLAIN]

- a. The device requires no calibration.
- b. The device is not repairable and contains no user serviceable parts.
- c. No modification of this equipment is allowed.
- d. The user must check that the equipment functions safely and see that it is in proper working condition before being used.
- e. Disposal
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your 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.
- f. Manufacturer will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.
- g. Do not position the equipment so that it is difficult to operate the disconnection device.
- h. Magnetic and electrical fields are capable of interfering with the proper performance of the XXX. For this reason make sure that all external devices operated in the vicinity of the XXX comply with the relevant EMC requirements. Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies or MRI devices are a possible source of interference as they may emit higher levels of electromagnetic radiation.
- i. Additional equipment connected to medical electrical equipment must comply with the respective IEC or ISO standards (e.g. IEC 60950 for data processing equipment). Furthermore all configurations shall comply with the requirements for medical electrical systems (See IEC 60601-1 or clause 16 of the 3Ed. of IEC 60601-1, respectively). Anybody connecting additional equipment to medical electrical equipment configures a medical system complies with the requirements for medical electrical systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. If in doubt, consult your local representative or the technical service department.

[Situation when patients operate the device by himself/herself]

1. Patients is the operator
2. During usage, patients only need simply clean the device with clean soft cloth
3. Patients can only set the patients information
4. Repairing device need to be done by manufacturer, patients cannot repair it by himself/herself
5. Patients cannot replace battery by himself/herself

[Maintenance can be done by Patients]

1. Clean the device with soft cloth which is slightly wet in the mix liquid of water and mild detergent
2. Please change the device with dedicated charging cable and certified compatible adaptor

[EQUIPMENT SYMBOLS]

Symbol	Description
	Type BF applied part
	Symbol for "CAUTION, CONSULT ACCOMPANYING DOCUMENTS"
	Complies with the Medical Device Directive of the European Union.
	Waste Electrical and Electronic Equipment (WEEE) It is the responsibility of the end user to dispose of this equipment at a designated collection point for recycling.
	Year of Manufacture
SN	Serial Number
	Symbol for "MANUFACTURER"
	Symbol for "AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY"
	Trademark
	Refer to instruction manual / booklet
IP22	Protected against access to hazardous parts with a finger and against vertically falling water drops when enclosure tilted up to 15°

[FAQ]

Questions	Solutions
Indicator lights do not turn on	Please check whether your hands touch on the 2 electrode sheets
	Please check whether the electrodes are put at the right position (with one electrode clamped by right hand and the side electrode put on the chest).
	Please slightly wet your skin with alcohol if skin is too dry.

	<p>Please make sure the side electrode touch the skin directly if with too much chest hair.</p> <p>Please change a new battery or recharge the device if power off.</p>
Always show waiting and cannot enter to ECG check page	Please check whether Bluetooth on
	Log out and re-enter
	Please restart the Bluetooth of the phone
Server does not feedback the test result	Please check the network connection is fine; check whether you are in the "Try Out" page.
Cannot turn on the device: indicator lights do not turn green	If the green light do not on when start the device, please charge the device on time; or send back to the manufacturer for repairing.
Cannot transmit data	<ol style="list-style-type: none"> 1. The light will turn blue when transmitting data. If not, then it cannot transmit data 2. The terminal device must support Bluetooth 4.0, otherwise cannot transmit data 3. Must completely install the related APP. And the device can be found on the terminal device when search the Bluetooth.
ECG waveform baseline drift and strong interference	Please strictly follow this manual to complete the ECG recording; please keep away from the large electrical equipment or other electromagnetic interference, such as electric blanket, heating pad and computer

Table 1 – Guidance and MANUFACTURER'S declaration – ELECTROMAGNETIC EMISSIONS
for all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration - electromagnetic emissions		
The [FG9131] is intended for use in the electromagnetic environment specified below. The customer or the user of the [FG9131] should assure that it is used in such an environment		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The [FG9131] 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 [FG9131] is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Table 2 – Guidance and MANUFACTURER'S declaration – electromagnetic IMMUNITY
for all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration - electromagnetic immunity			
The [FG9131] is intended for use in the electromagnetic environment specified below. The customer or the user of the [FG9131] should assure 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	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 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 %
Power frequency (50/60Hz) 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.

Table 3 – Guidance and MANUFACTURER'S declaration – electromagnetic IMMUNITY**for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING**

Guidance and manufacturer's declaration - electromagnetic immunity			
The [FG9131] is intended for use in the electromagnetic environment specified below. The customer or the user of the [FG9131] should assure that it is used in such an environment			
Immunity Test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2.5GHz	3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the [FG9131], including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>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)</p> <p>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</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

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 [FG9131] is used exceeds the applicable RF compliance level above, the [FG9131] should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the [FG9131].

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

Table 4 – Recommended separation distances between portable and mobile RF communications equipment and the ME EQUIPMENT or ME SYSTEM – for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the [FG9131]		
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m	
	80MHz to 800MHz $d=1.2\sqrt{P}$	800MHz to 2.5GHz $d=2.3\sqrt{P}$
0,01	0.12	0.23
0,1	0.38	0.73
1	1.2	2.3
10	3.8	7.3
100	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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.

FCC Caution

§ 15.19 Labeling requirements.

This device complies with part 15 of the 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.

§ 15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses 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:

- 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.

§ 15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Document No: BS-QM-05

Effective date: 2020-03-29

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