

WELLCORE®iBeaconW955Series

Product Specification V1.08-2018



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WELLCORE®iBeaconW91 Series

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1 Product introduction:

1.1 summarize

iBeacon isaBLE (Bluetooth low energy)introduced by Apple's Bluetooth application, a technologythat can be usedindoor positioning, to a certain extent, be used to compensate for the lackof poor locate for GPS in the room, butiBeaconis different from GPS positioning principle, iBeaconpositioning iscalculated by the signal strengthreceived by the receivertodetermine the distance between the two, iBeaconcontinuing transmitting broadcast information which contains a specific MAC address, UUID, MAJOR, MINOR, etc., when the phonereceives the APPY ou

candeterminewhenthis broadcastinformationiBeaconlocation, but also by APPmobile clienttells the serverhasaccess to theiBeaconbroadcast area. iBeaconsend tophone only broadcast informationwithoutany other information, but according tobroadcastinformationsent by iBeacon, the phone can download required information in relevant server.

1.2 iBeacon technical introduction

iBeacon broadcast frame using "announcement frame" (Advertising) to send the message, the notice issued by a periodic frame with BLE devices (iBeacon), as long as the support BLE terminal can receive the signal. Announcement frame payload portion, and writes the data defined by Apple. iBeacon data mainly constituted by the four kinds of information, namely, UUID (Universal Unique Identifier), Major, Minor, Measured Power. UUID is defined as ISO/IEC11578: 1996 standard 128-bit identifier. Major and Minor iBeacon set by the owner, is a 16-bit identifier. For example, stores can use UUID name on behalf of the head office, Major representatives of regional names, Minor behalf of a shop name Measured Power is iBeacon distance between the module and the receiver reference received signal strength at 1 m. (RSSI: Received Signal Strength Indicator), the receiver of the reference RSSI based on the intensity of the received signal to the receiver module and calculating iBeacon distance.

As Measured Power, because Apple's iOS is not careful in judging distance, while using only close (Immidiate), 1m or less (Near), 1m or more (Far) from three kinds of states. When the distance less than 1m, RSSI value is substantially proportional to the reduction, a more accurate distance, the distance 1m in the above, the influence of the reflected waves and the like, RSSI but not significantly reduce fluctuations. In other words, when you can not be inferred from the above 1m apart, so simply judged Far.

8bit	32bit 16-312bit 2							24bit		
Synchronous code	Access	address		Payload data						
		Data head	Notice address	UUID	Major	Minor	Measur	ed power		
		16bit	48bit	128bit	16bit	16bit	8bit			

IBeaconData frame structure

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2 Technical parameter setting:

2.1 UsePlatform

Receiving end (mobile) hardware must be Bluetooth 4.0 or more, the software requires Android 4.3 or above Apple IOS7.0 more.

2.2 TestSoftware

SoftwareName: Light blue, the softwarecan be downloaded freefrom the AppleAPPstore.

2.3 Light bluemenu Introduction

Open the software Light blue, this time will automatically search out iBeacon device can also be connected to the sliding screen refresh Equipment, open software displays the following figure, this time in the menu Peripherals Nearby displayed at WGX ibeacon It means that the search has been successful to the device, the device name is WELLCORE factory default settings, the user can modify Refer to Section 2.9 to modify the method.

	Figure 1	
••••	中国移动 3G 😌 11:07	* 💼• +
Info	LightBlue	+
Peri	oherals Nearby	
.1 -59	WGX ibeacon No services	>
Virtu	al Peripherals	
\bigcirc	sun111 2 services	>
\bigcirc	Location and Navigat 1 service	ion >
	Log	



Clickbelow (Figure 1) name of the deviceicon: WGX ibeacon, thenenter(Figure 2) interface, this menuhasall the informationlistedibeacon, Battery Level (100%)this indicates that the currentcapacity of 100% (3.0V), powerlow than 2.0V then show 0%.

iPad 후	17:14	@ ┦ \$ 40% ■
LightBlue	Peripheral	Clone
WGX iBeac	on	
UUID: 35D302C8-95AE	-77E9-9134-5F190A58358F	
Connected		
ADVERTISEMEN	NT DATA	Show
UUID: FFF0		
OxFFF1 Properties: Read Write		>
OxFFF2 Properties: Read Write	━━> Major	>
OxFFF3 Properties: Read Write	➡> Minor	>
OxFFF4 Properties: Read Write	← Measured Power	>
OxFFF5 Properties: Read Write	➡> Device name	>
OxFFF6 Properties: Read Write	Transmit power	>
OxFFF7 Properties: Write	Password	>
OxFFF8 Properties: Read Write	Broadcast frequency	>
OxFFF9 Properties: Write	Reset factory setting	>
OXFFFE Properties: Read Write	BT vendor ID	>
OxFFFF Properties: Write	Deploy mode	>
Battery Service		
Battery Level	Battery level	>
	Log	



2.4 The login password and how to modify.

Attention: For the iBeacon we provide, the login password is needed if want to check or modify Device Parameters. The original code is:140611,Please see Figure3-5 for the right way of Entering the password.Before entering the right password, it all shows 0(Figure 3) on the Icon:<u>READ</u> <u>again.</u>Click: <u>Write new value</u>(Figure 3),start to enter the password(Figure 4), nowEnter

<u>AA140611</u>,Prefix AA means enter password,Click done when finished.now you canCheckModify other parameters, It means the password is wrong if you can not see theparameters,Then need to enter the right password.

Modify password(Figure 5): Only can modify the password when the right passwordhas been put in. For example if you need to modify password to be : 123456,then youNeedEnter <u>AC123456</u>, Prefix AC means modify password,the password can be6-20 letters.ClickDone when finished.

Figure 3	F	igure 4		F	igure 5	
●●●●● 中国移动 3G 11:10	●●●●● 中国移动 3	G 11:11	ಬ 🖇 💷 +	●●●●● 中国移动 3	G 11:14	* ■ •
WGX ibeacon 0xFFF7 Hex	OxFFF7	Edit Value		< 0xFFF7	Edit Value	
WGX ibeacon						
Characteristic 7		Label			Label	
UUID: FFF7	AA 140611	\mathcal{I}		AC123456		
Connected						
READ VALUES		_		1000		
Read again	D	E	F	D	E	F
> 000000000000000000000000000000000000	А	В	С	А	В	С
WRITTEN VALUES	7	8	9	7	8	9
Write new value	1	5	6	1	5	6
DESCRIPTORS		5	0	4	5	0
Characteristic 7 Characteristic User Description	1	2	3	1	2	3
Log		0	Done		0	Done

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2.5 UUIDrevise

UUID is a 16 digits (32characters)HEX value , the default value is (Figure 6): E2 C5 6D B5 DF FB 48 D2 B0 60 D0 F5 A7 10 96 E0,For example,modifyUUID to be: E2 C5 6D B5 DF FB 48 D2 B0 60 D0 F5 A7 10 96 E1,then write Corresponding values on "Write new value"(Figure 7),Clink Done when finished.Meanwhile,,the new set UUID shows on the "Read again",Notice:Thedevices can

not be searched out on Locate ibeacon after finished modify UUID, As Locate ibeacon can only shows the Registered device, so you need to add a modified UUID device on the Options of iBeacon Transmitter.



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2.6 Major revise

Major is 2digits(4characters)HEX value, default value is (Figure 9):0000,For example,modifyMajor to be : 8810,Then write Corresponding values in the "Write new value"(Figure 10),Click Done when finished. Meanwhile, the new set Major shows on the Read again(Figure11).

Figure 9		Figure 10)		Figure 11	
••••••中国移动 令 11:37	* 🖦	••••• 中国移动 3		* 🖦	●●●●● 中国移动 夺 11:47	* 🖦
VVGX IDeacon UXFFF2	Hex	C UXFFF2	Edit value		WGX ibeacon 0xFFF2	Hex
WGX ibeacon			Hex		WGX ibeacon	
Characteristic 2		8810	TIOX		Characteristic 2	
UUID: FFF2					UUID: FFF2	
Connected					Connected	
READ VALUES			E	F	READ VALUES	
Read again					Read again	
0x 0000 Major 11:37:50.354		Α	В	С	Ox 8810 11:47:12.447	
WRITTEN VALUES		7	8	9	0x0000 11:46:47.277	
Write new value		4	5	6	WRITTEN VALUES	
DESCRIPTORS		-	0	2	Write new value	
Characteristic 2 Characteristic User Description		1	2	3	0x 8810 11:47:12.344	i
Log		\mathbf{A}	0	Done	Log	

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2.7 Minor revise

Minor is 2digits(4characters)HEX value, default value is (Figure 12):0000,For example, modify Minor to be: 8811,Then write Corresponding values in the "Write new value" (Figure 13),Click Done when finished.Meanwhile, the new set Minor shows on the Read again(Figure14).

Figure 12	F	Figure 13		Figure 14		
••••• 中国移动 🤝 11:47	* 📼	●●●●● 中国移动 🗢	11:47	* 💷	••••• 中国移动 穼 11:47	* m r
KWGX ibeacon 0xFFF3	Hex	〈 0xFFF3	Edit Value		KWGX ibeacon 0xFFF3	Hex
WGX ibeacon Characteristic 3 UUID: FFF3 Connected		8811	Hex		WGX ibeacon Characteristic 3 UUID: FFF3 Connected	
READ VALUES		D	E	E	READ VALUES	
Read again				F	Read again	
Ox 0000 Minor 11:47:31.497		A	В	С	Ox 8811 11:47:42.448	
WRITTEN VALUES		7	8	9	0x0000 11:47:31.497	
Write new value		4	5	6	WRITTEN VALUES	
DESCRIPTORS			•	0	Write new value	
Characteristic 3 Characteristic User Description		1	2	3	0x 8811 11:47:42:346	(i)
Log			0	Done	Log	

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2.8 Measured Power revise

Measured Power is a 1digit(2 characters)HEX value, default value is(Figure15):C5,Forexample, modify Measured Power to be: C6,Then write Corresponding values in the Write new value(Figure 16), Click Done when finished.Meanwhile, the new set Measured Power shows on the Read again(Figure17).Notice Measured Power is a ISSI when the distance is 1 meter.The default value has been optimized,It's not recommended modification.

Figure 15	Figure	16		Figure	17	
••••• 中国移动 穼 11:47	* 🖦	●●●●● 中国移动 🤝	11:48	* 📼	••••• 中国移动 🗢 11:48	* 📼
KWGX ibeacon 0xFFF4	Hex	〈 0xFFF4	Edit Value		KWGX ibeacon 0xFFF4	Hex
WGX ibeacon Characteristic 4 UUID: FFF4 Connected		C6	Hex		wgx ibeacon Characteristic 4 UUID: FFF4 Connected	
READ VALUES		П	F	F	READ VALUES	
Read again			-	1	Read again	
OxC5 Measured Power 11:47:50.038		А	В	С	0x C6 11:48:04.379	
WRITTEN VALUES		7	8	9	0xC5 11:47:50.038	
Write new value		4	5	6	WRITTEN VALUES	
DESCRIPTORS		4	0	0	Write new value	
Characteristic 4 Characteristic User Description		1	2	3	0x C6 11:48:04 281	i
Log			0	Done	Log	

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2.9 Device name revise

Device Name is 1-15 characters (ASCII Code), the default device name is "WGX ibeacon"(Figure 18)Example:Modify the Device name is:"wellcore01": Writing the corresponding values in the place of "Write new value"(Figure 19). After finished Click"Done"to exit. At this time it displayed a new Device Name in the"Read again"(Figure 20), because this value must be entered

in ASCII.So before modifying, click the top right corner of the "Hex" (Figure 18), And change to the entry mode of "UTF-8" (Figure 19). Please pay attention: You should re-search the device again then it can display the New Modified Device Name.

Figure 18	Figure 19	Figure 20						
•••••• 中国移动 중 11:48 米 ■ 〈 WGX ibeacon 0xFFF5 Hex	●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●	●●●●● 中国移动 く 0xFFF5	হ Edi	^{11:49} t Valu	е		*)
wgx ibeacon Characteristic 5 UUID: FFF5 Connected	wgx ibeacon Characteristic 5 UUID: FFF5	wellcore01	UTF	8 Str	ing			
READ VALUES	0x5747582069626561636F6E000000000 Hex							
0x5747582069626561636F6E0000000000 11:48:13.469	012721654040322611453026155733400000000000 Octal 010101011101000111001000001000000110100101							
WRITTEN VALUES	"WGX ibeacon"	123	4 5	5 6	7	8	9	0
Write new value	UTF-8 String	- / :	; (\$	&	@	,,
Characteristic 5 Characteristic User Description	Byte Count: ∞ + Endianness: Big Little	#+=	,	?	!	,		×
Log	Log	ABC	s	pace			Dor	е

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2.10 Transmit Power revise

"Transmit Power" is a (2 characters) HEX value, the default value is 08(Figure 21), the transmit power has 9 grades. "01" represent -40db; "02" represent -30db; "03" represent -20db; "04" represent -16db; ;"05" represent -12db; ;"06" represent -8db; ;"07" represent -4db; ;"08" represent 0db; ;"09" represent

<u>+4db</u>.Example:Modify the Transmit Power is 01: Writing the corresponding value in the place of "Write new value" (Figure 22). After finished Click "Done" to exit. At this time it can display the new Transmit Measured Power in the place of "Read again" (Figure 23). Please pay attention: You should modify transmit power according to the actual needs, "09 --- +4db" corresponds to the maximum power, the signal transmission distance can up to 100 meters, but the battery life will be relatively short.

Figure 21			Figure 22			Figure 23	
●●●●● 中国移动 令	11:50	* 💼	●●●●●中国移动 ຈ	হ 11:50	* 💼	••••• 中国移动 🗢 11:50 🖇	; D
<pre>< wellcore01</pre>	0xFFF6	Hex	〈 0xFFF6	Edit Value		✓ wellcore01 0xFFF6	Hex
wellcore01 Characte UUID: FFF6 Connected	eristic 6		01	Hex		wellcore01 Characteristic 6 UUID: FFF6 Connected	
READ VALUES			П	F	F	READ VALUES	
Read again					LC	Read again	
0x08 11:50:26.297	Transmit Power		Α	В	С	Ox O1 11:50:46.341	
WRITTEN VALU	ES		7	8	9	0x01 11:50:36.528	
Write new value	9		4	5	6	0x02 11:50:26.297	
DESCRIPTORS			4	0	0		
Characteristic	c 6 ar Description			2	3	WRITTEN VALUES	
Chiaracteristic Use	Log			0	Done	Write new value	

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2.11 Broadcast frequency revise

"Broadcast Frequency"is a (2 characters) HEX value, the default value is 0A (Figure24). The Broadcast Frequency can be regulated from 0.1 second to 10 seconds: 01 (0.1 seconds); 05 (0.5 seconds)...... 0A (1s); 64 (10 seconds) Example: Modify the Broadcast Frequency is 0.5 seconds: Writting the "05" in the place of "Write new value" (Figure 25). After finished Click "Done" to exit. At

this time it can display the new Broadcast Frequency in the place of "Read again" (Figure 26). Please pay attention: You should modify the Broadcast Frequency according to the actual needs, the Broadcast Frequency is small and power consumption is also small. The battery life will be relatively increased.

Figure 24	F	Figure 25		Fi	gure 26	
●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●	∦ ■ • Hex	●●●●● 中国移动 名 〈 0xFFF8	হ াা:51 Edit Value	* 💷)	●●●●● 中国移动	∦ ा Hex
wellcore01 Characteristic 8 UUID: FFF8 Connected		05	Hex		wellcore01 Characteristic 8 UUID: FFF8 Connected	
READ VALUES		D	F	F	READ VALUES	
Read again					Read again	
OXOA 11:50:55.848 Broadcast frequency		Α	В	С	0x 05 11:51:07.968	
WRITTEN VALUES		7	8	9	0x 0A 11:50:55.848	
Write new value		4	5	6	WRITTEN VALUES	
DESCRIPTORS			•	0	Write new value	
Characteristic 8 Characteristic User Description		I	2	3	0x 05 11:51:07.863	i
Log			0	Done	Log	

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2.12Reset factory settings

"Reset factory settings" is a 1 byte (2 characters) HEX value,A6.Writing the "A6"In the place of "Write new value"(Figure 27). After finished Click "Done" to exit. Note that you must first restore the factory settings after power off and then turnOn the device.

Figure 27

●●●●● 中国移动 중 11:51	* 📼	●●●●● 中国移动 令	* 📖	
<pre>〈 wellcore01 0xFFF9</pre>	Hex	〈 0xFFF9	Edit Value	
wellcore01			Hoy	
Characteristic 9		A6	TIEX	
UUID: FFF9				
Connected				
READ VALUES				
Read again		D	E	F
0x 00 11:51:14.088		А	В	С
WRITTEN VALUES		7	8	9
Write new value		4	5	6
DESCRIPTORS				
Characteristic 9		1	2	3
Log		\bigstar	0	Done

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2.13 BT vendor ID revise

"BT vendor ID " is a 2 byte (4 characters) HEX value, the default value is 004C (Figure28),This ID by the Bluetooth Association of distribution companies, such as NORDICCorp is :0059, the Apple Corp is :004C ,Example:Modify the BT vendor ID is 0059,Writting the "0059" in the place of "Write new value" (Figure 29). After finished Click "Done" to exit. At this time it can display the new ID in the place of "Read again" (Figure 30).

Figure 28			Figure 29					Figure 30			
IPad ♥ ✓ NEXTPAGE	17:14 OxFFFE	⊕ -/ \$ 40% ■⊃ Hex	IPad 🕈		17:15 Edit Value		⊕ -7 \$ 40% ≋ ⊃	IPad ♥ ✓ NEXTPAGE	17:15 0xFFFE	⊛ ⊀ \$ 40% ∎⊃ Hex	
NEXTRACE OXFFFE UUD. FFE Connected READ VALUES Read again VOID VO				0059	Hex			KACTINGE OXFFFE UUD: IFFE Connected NAD WILLES Pad again Ox0059 Y1 host sit Ox005 Y1 host sit Ox0059 Y1 host sit Ox0059 Y1 host sit Ox0059 Y1 host sit Ox0059 Ox004 Ox0059 Ox004 Ox0059 Ox004 Ox0059 Ox0059 Ox004 Ox0059 Ox0		0	
			5 C A					Read			
			200	D	F	F		vvnte			
						-					
				A	в	C.					
				7	8	9					
				4	5	6					
				1	2	3					
	Log			•8	0	Done			Log		

2.14 Deploy mode revise

"Deploy mode " is a 1 byte (2 characters) HEX value, the default value is (00), Deploy mode:value 70(careful operation, set up after the parameters can not be modified forever),Normal mode:value 00 (can be modified parameters) ,Example:Modify the value is 70,Writting the "70" in the place of "Write new value"(Figure 31). After finished Click "Done" to exit.

Figure 30			Figure 31					
IPad 🗢	17:15 OxFFFF	€ 1/ \$ 40% ∎⊃ Hex	IPad 🗢 < OxFFFF		17:15 Edit Value		€ ∜\$40% ■⊃	
NEXTPAGE OXFFFF UUID: FFFF Connected				70	Hex			
WRITTEN VALUES								
DESCRIPTORS								
PROPERTIES								
			500					
				D	E	F		
				Α	В	С		
				7	8	9		
				4	5	6		
				1	2	3		
	Log			•	0	Done		

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3 Distance function:

3.1 Test Software

Software Name:Locateibeacon .You can download from the iphone "APPSTORE" with free charge.

3.2 The Use-method of Locate iBeacon

1.Open the software "Locate ibeacon" (Figure 28).Click"LocateiBeacons"you can enter the next two levels of menu (Figure29,30)At this time you can see all the informations of the device.Such asUUID,Major ,Minor, ISSI,RangeInformation,etc.



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2,If you had modified the present UUID:E2 C5 6D B5 DF FB 48 D2 B0 60 D0 F5 A7 10 96 E0 to E2 C5 6D B5 DF FB 48 D2 B0 60 D0 F5 A7 10 96 E5 At this time you can't recognize the current device in the place of "Locate iBeacon", you must add an identical device UUID (Figure 32) ,Writing "Name"and "UUID",you needn't write the Major,Minor. After finished click "SAVE",(Figure 33) The interface indicates you has been set it successfully.

Figure 31	Figu	re 32				Figure 33
●●●●● 中国移动 3G 15:44 イ % ■●	•••• 中国	目移动 3G	15:54		1 ∦ ■⊃	••••• 中国移动 3G 15:55 イ 常 ■●
< Back	< Back	(< Back
Visible iBeacons - tap row for more info No iBeacons visible with configured UUIDs. Tap here to configure additional UUIDs. Click to enter the edit menu	When locating, only iBeacons matching the defined Proximity UUIDs will be visible. The name field is a friendly name that will be displayed when an iBeacon matching all of the other fields is detected. Major and Minor are optional for detection purposes and may be left blank. Name w001 Proximity UUID					Visible iBeacons - tap row for more info w001 Major: 0, Minor: 0, Distance: 0.33m Tap here to configure visible iBeacon UUIDs.
	Major Minor					
	Iviajor					
	#@~	@/#	abc	def	⊗	
	123	ghi	jkl	mno	英文	
	拼音	pqrs	tuv	wxyz	+	
		\rightarrow	空	图格	换行	

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4Product certification: **CE,FCC**, **ROHS**

4.1 FCC ID:

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5Electrical Parameters:

- 5.1 Hardwareversion: Nordic NRF51822.
- 5.2 Operating Voltage: 1.8-3.8V
- 5.3Bluetooth: BLE V4.0
- 5.4OperatingFrequency:2.4GHz ISM band
- 5.5Modulation:GFSK(Gaussian Frequency Shift Keying)

6Use Environment:

- 6.1 Operating temperature: $-25 \sim +65^{\circ}$ C
- 6.2 Storage Temperature: $-40 \sim +75^{\circ}C$
- 6.3 Environment Humidity: 5%~85%

7 Product Specifications

7.1 Model: W956D

1Product photos

2 Mechanical Dimensions: L*W*H: 100*68*50mm

3Weight: 230g

- 4 Batterytype: ER34615(19000mAH) (broadcast frequency of 1 second, the power of 0dB working more than 10 years).
- 5 Product Description: with waterproof function, waterproof grade IP67.

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FCC Caution:

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.

Any Changes or modifications 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.

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