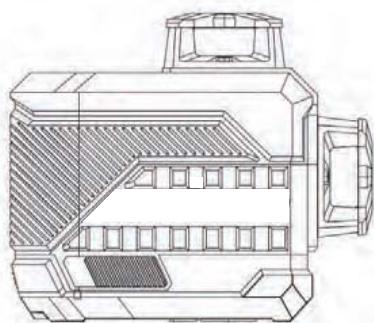


# OWNER'S MANUAL SAFETY INSTRUCTIONS

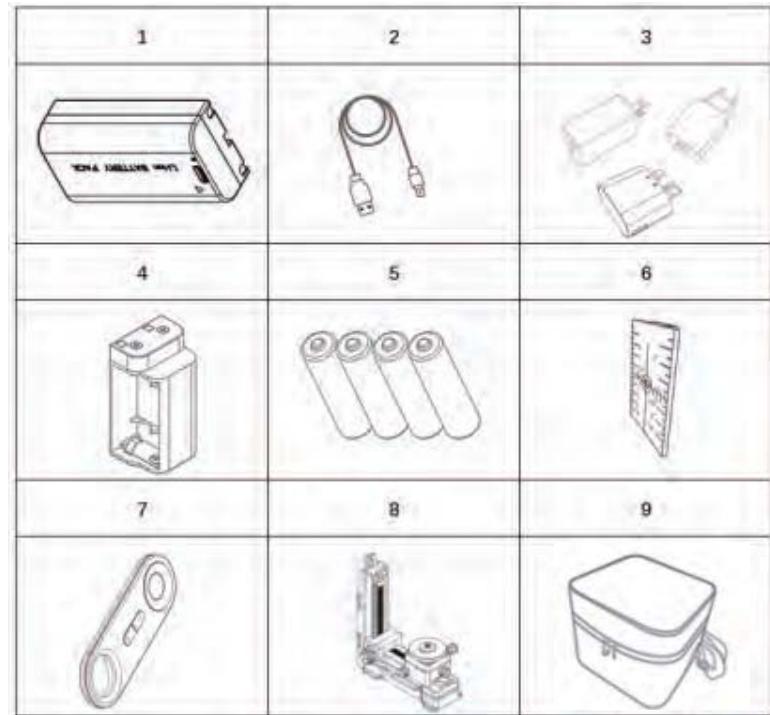
Read this material before using this product. Failure to do so can result in serious injury. Save this manual

**360° SELF-LEVELING  
CROSS LINE LASER LEVEL**  
Model **Z03CG**



Model **Z03CG**

English	1-16
Deutsch	17-32
Français	33-48
Italiano	49-64
Español	65-80
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#### Accessories Description

1.Li-ion Battery	6.Laser Target Plate
2.Type-C Power Cord	7.Remote Control
3.Power Adapter	8.Multifunctional Bracket
4.Battery Holder for AA Batteries	9.Carrying Case
5.AA Batteries	

**NOTE**

Thank you for purchasing 360° Self-leveling Cross Line Laser Level.

Before using the product, please read this manual thoroughly to ensure proper use.

**1. Safety Instructions****WARNING**

Please read thoroughly and comply with the Safety Instructions and User Manual before using this product. Failure to read and follow may void the warranty.

**WARNING**

**CLASS II LASER PRODUCT  
COMPLIES WITH CFR 1040.10 AND 1040.11**

Max. Power Output: <1mW

Wavelength: 510nm-530nm

**LASER RADIATION:**

**DO NOT STARE INTO BEAM.**

**DO NOT DIRECT EYE EXPOSURE.**

**AVOID VIEW WITH OPTICAL INSTRUMENTS.**



- An exposure to the beam of a Class 2 laser is considered safe for a maximum of 2 seconds. Eyelid reflexes will normally provide adequate protection.
- The following label/print samples are placed on the product to inform of the laser class for your convenience and safety.

**User Guide, Maintenance and Care:**

- When not in use please power OFF the tool and place the pendulum lock in locked position.
- The laser tool is sealed and calibrated at the plant to the accuracy specified.
- It's recommended to carry out an accuracy check before its first use and periodic checks during future use especially for precise layouts.
- Do not touch the glass window in case leaving any fingerprint on the window, which may affect the performance of the laser.
- Do not store the laser tool in direct sunlight or expose it to high temperatures. The housing and some internal parts are made of plastics and may become deformed at high temperatures.
- Exterior plastic parts may be cleaned with a damp cloth, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.
- Store the tool in its case when not in use. If storing for extended time, remove batteries before storage to prevent possible damage.
- Do not dispose of this product with household waste.
- Always dispose of batteries per local code.
- Please recycle in line with local provisions for the collection and disposal of electrical and electronic waste under the WEEE Directive.

## 2.Charging and Battery Safety

This product can work with either AA batteries or lithium battery. It may be equipped with AA batteries or lithium battery by different dealers. Please check the contents of the package according to the dealer's description.

Please read thoroughly and comply with the battery safety instructions and precautions before charging.

Failure to read and follow may result in personal injury, fire, and property damages if the battery is charged and/or used improperly.

### Lithium Battery Safety:

- A power adapter with 5V=1A or 5V=2A or 5V=3A can be used for charging.
- Please charge in 24 hours when the battery is low or the laser tool turns off due to low power.
- If the lithium battery is not used for extended time, please charge the lithium battery once every 6 months, each charging time is not less than 6 hours.
- The best charging temperature: 0°C to 20°C (32°F to 68°F)

### ⚠ NOTE

- The laser tool is able to work while being plugged in directly even if taking out the battery.
- The battery can be charged in the laser tool or it can be taken out for charging.
- 5V=2A adapter is recommended for Z04CG.

### Battery Indicator(14):

- During charging, the charging indicator will light up in red.
- When charging is complete, the battery indicator will light up green.

### AA Battery Safety:

- Please pay attention to the position of the positive and negative pole.
- Please use large-capacity rechargeable batteries or alkaline battery above 1500mAh for each when replace batteries.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.



### NOTE

Avoid charging the device without taking out the alkaline batteries.

### Attention:

- DO NOT SHORT CIRCUIT. Short circuits may cause fire, and injury!
- Do not charge unattended.
- Do not disassemble, or modify the battery.
- Keep away from children, and pets.
- Immediately discontinue use of the battery if the battery abnormal/ deformed (emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way). Please contact the manufacturer to replace it.
- Never charge or store the batteries inside your car. Extreme temperatures (low or high) might ignite the battery, and cause a fire.
- Do not place the battery in high-pressure containers, microwave ovens, or on induction cookware.
- Do not carry, or store the batteries together with hairpins, necklaces, or other metal objects.
- On (battery electrolytes) exposure to skin, flush with water immediately. If eye exposure occurs, flush with water for 15 minutes, and seek emergency care immediately.
- On (battery electrolytes) exposure to skin, flush with water immediately. If eye exposure occurs, flush with water for 15 minutes, and seek emergency care immediately.

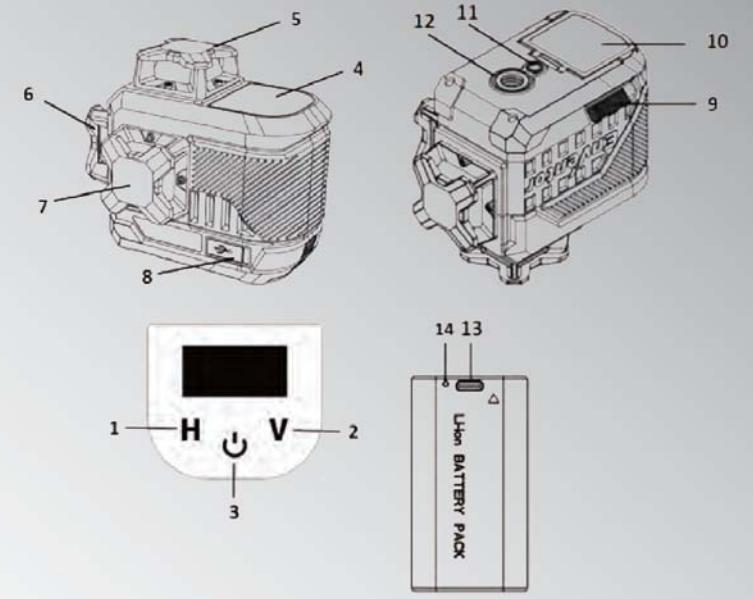
### 3.Specifications

Model:	Green Beams
Laser Class:	Class 2 (IEC/EN60825-1/2014), <1mW
Laser Wavelength:	510-530nm
Leveling Accuracy:	± 3mm/10m( ±1/9 in. at 33 ft)
Leveling / Compensation Range:	3.5° ± 1°
Self-leveling Time:	3 seconds
Reference Working Distance (60-100 LUX):	≥20m/ 66ft
Reference Working Distance (with Laser Detector):	≥40m/ 130ft
Power Source(Optional):	Li-ion Battery 7.4V 2600mAh / 4 x AA Battery
Reference Operating Time (with 7.4V/2600mAh Li-ion Battery)	About 7 hrs
Reference Operating Time (with AA Battery each above 1500mAh)	About 1.5 hrs
Charging Time:	About 4.5 hrs
Mount Size:	1/4"-20 & 5/8"-11
IP Rating:	IP54
Work Temperature:	-10°C ~+50°C
Storage Temperature Range:	-20°C ~+70°C

### NOTE

- Appearance and specifications may differ due to product improvement.
- Working distance varies depending on the operating environment.
- When use with receiver for a larger working range, it's necessary to turn on the pulse mode.

### 4.Product Overview



1.Switch Horizontal Line(s)

2.Switch Vertical Lines

3.ON / OFF Button & Pulse Mode Button

4.LCD Display and Control panel

5.Top Laser Window

6.Front Laser Window

7.Side Laser Window

8.Type-C Charging Port

9.Pendulum / Transit Lock

10.Battery Compartment

11.1/4"-20 Threaded Mount

12.5/8"-11 Threaded Mount

13.Type-C Charging Port on battery

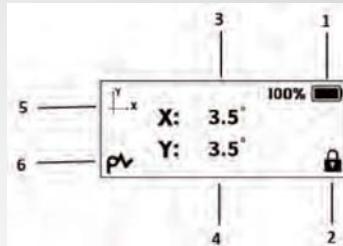
14.Battery Indicator

## 5. LCD Display & LED Indicator

### Icons on LCD Display:

#### A. Icons Introduction

1. Battery Level
2. Pendulum Locked & Unlocked Status
3. X Axis Tilt Angle
4. Y Axis Tilt Angle
5. X/Y Axis Tilt Direction
6. Pulse Mode Icon



#### B. Battery Level Icon on LCD Display:

- After power on, the battery level icon will be displayed on the LCD display to indicate different battery status and battery level.
- When battery is low and needs to be charged, the icon  will display and flash.
- During charging, the icon  will scroll.
- When charging is complete, the icon  will display.
- The laser tool is able to work while being plugged in directly even if taking out the battery, and the icon  will display.
- When laser tool is with AA batteries, the icon  will display.

#### C. Pendulum Locked & Unlocked Status:

- Pendulum Unlocked: When the self-leveling mode is activated, the icon  will be showed on the LCD display.
- Pendulum Locked: When the manual / tilt mode is activated, the icon  will be showed on the LCD display.

#### D. Pulse Mode Icon:

- When switch to Pulse Mode, the icon  will be showed on the LCD display.
- When return back to Normal Mode, the icon  will disappear from the LCD display.

### Backlight Indicator:

#### A. Battery and Charging:

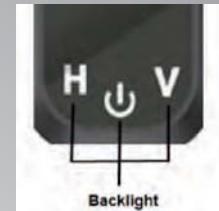
- After Power ON, the backlight will light up in white.

- When Li-ion battery is low and needs to be charged, the power indicator will flash in red.
- During battery charging, the backlight will flash in white.
- When charging is complete, the backlight will light up in white continuously.
- When switch to Pulse Mode, the backlight will light up in blue.
- When return back to Normal Mode, the backlight will return to white.



#### NOTE

When charging during Pulse working mode, the backlight will flash in blue.



## 5. Operation

### Turn ON the laser tool:

#### A. Method 1: Turn ON the Self-leveling Mode:

- Slide the pendulum to the Unlocked Position to turn ON the laser tool, the self-leveling mode is activated by default.
- The laser beam(s) blink fast and laser tool will beep as well when the tool is out of self-leveling range ( $3.5^\circ \pm 1^\circ$ ).

#### B. Method 2: Turn ON the Manual / Tilt Mode:

- When the pendulum in Locked Position, press  and hold for  $\geq 2$  seconds to turn ON the laser tool, the manual mode is activated by default.
- The laser beam(s) will blink about every 3-5 seconds to notify the user it is not self-leveling now.
- Under manual mode, users can position the laser tool at various angles.



#### NOTE

- Please notice the laser beam(s) projected in manual mode cannot be used as a horizontal or vertical reference in nature.
- The pendulum lock and unlock status icon ( or ) will be displayed on the LCD and APP/APK software page to indicate that it is currently in self-leveling mode or manual mode.

## Turn OFF the laser tool:

### A. If the laser tool is in Self-leveling Mode:

- Slide the pendulum to the Locked Position to turn OFF the laser tool.

### B. If the laser tool is in Manual Mode:

- Method 1: Slide the pendulum to the Unlocked Position, and then slide the pendulum again to the Locked Position to turn OFF the laser tool.
- Method 2: When the pendulum is in the Locked Position, press  and hold for ≥ 2 seconds to Turn OFF the laser tool.

### C. Automatic Power OFF:

- In Manual Mode, when all laser lines are switched OFF, the laser tool will Automatically Turn OFF after about 5 minutes of inactivity.

### NOTE

- The laser level can only be turned off when the pendulum in its Locked Position.
- If all laser lines are switched OFF while the laser tool is still powered ON, the laser tool will beep every 30 seconds to remind the laser tool that it is not turned OFF.
- Please note if all laser lines are switched OFF, while the LCD display or LED indicator is not turned off, the laser tool is not turned OFF.

## Lines Switching:

After power on, all laser beams will be on by default.

- Short press  to switch the horizontal line(s).
- Short press  to switch the vertical lines.
- The backlight of H/V will be on when the line(s) is on, and be off when the line(s) is off.

## Pulse Mode (Use with Laser Receiver):

With the pulse mode on, the laser tool can work with the laser receiver for working in a brighter environment or a larger working distance.

- Switch to Pulse Mode: Turn on the laser tool, short press  to switch to Pulse Mode. The laser beams are dimmer in pulse mode.
- Return Back to Normal Mode: Short press  again to return to Normal Mode. The laser beams will be recovered.

### NOTE

- When switching between Pulse Mode and Normal mode, the laser beam(s) will blink fast as a reminder.
- The pulse mode icon  will be displayed on the LCD display when switch to pulse mode, and will disappear from the LCD display when return back to the normal mode.
- The backlight of control panel will light up in blue when switch to Pulse Mode, and return to white when return back to Normal Mode.
- Keep the pulse mode on when using with receiver for larger working range.

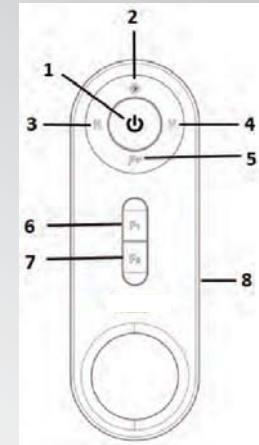
### NOTE

The laser tool can connect two Bluetooth devices simultaneously. It can connect two remote controls, or two mobile phones, or one remote control and one mobile phone at the same time.

## 6. Remote Control (Optional)

### Overview

- 1.ON / OFF Button
- 2.Brightness Adjustment Button (for Upgraded version, not for this version)
- 3.Switch Horizontal Line(s)
- 4.Switch Vertical Lines
- 5.Pulse Mode Button
- 6.Function Button for Future Upgraded version (not for this version)
- 7.Function Button for Future Upgraded version (not for this version)
- 8.Type-C Charging Port



**Turn ON / OFF & Connect:**

- Press  and hold for ≥ 2 seconds to turn ON the remote control.
- Turn on the remote control when the laser tool is on, the remote control will match and connect with the laser tool automatically.
- Press  and hold for ≥ 2 seconds to turn OFF the remote control.

 **NOTE**

- If the connection fails, please turn off the remote control and laser tool, then restart them to restore the connection.
- The laser tool is able to connect two Bluetooth remote controls at the same time.
- Please understand that due to the pendulum locking design, the laser tool cannot be turned on or off by the remote control. The self-leveling and manual mode cannot be switched via the remote control.

**Function Operation:****A. Lines Switching:**

- Short press  to switch the horizontal line(s).
- Short press  to switch the vertical lines.

**B. Pulse Mode:**

- Short press  to switch to Pulse Mode and return back to normal mode.

**C. Switch OFF the laser lines:**

1. If the laser tool is in Self-leveling Mode:

Short press  to temporarily switch off all the laser lines, the laser tool is not turned OFF. Short press any button on the remote control to wake up the laser tool for working again.

2. If the laser tool is in Manual Mode:

Short press  to switch off all the laser lines, the laser tool will Automatically Turn OFF after about 5 minutes of inactivity. Within 5 minutes, users can short press any button on the remote control to wake up the laser tool for working again.

 **NOTE**

The laser level can only be turned off when the pendulum in its Locked Position.

**Indicator on Remote Control:****A. Connect and Match:**

- During the connecting and matching the Bluetooth remote control with the laser tool, the indicator will flash in green per second.
- Once connected, the indicator will light up in green continuously.
- If the connection fails after more than 1 minute, the remote control will automatically turn off, and the indicator will light off.

**B. Operation:**

- After the remote control connected successfully, when pressing any button, the indicator will flash once in green every time you press it.
- When the remote control is not operated within 5 minutes, the indicator will flash in green every 5 seconds, and the remote control enters low power consumption mode. Press any button to resume normal operation.

**C. Battery and Charging:**

- When the power is low, the indicator will flash in red twice per second. The remote control can still work until the power is exhausted and turn off automatically, and the indicator will light off.
- During charging, the indicator will flash in red.
- When charging is complete, the indicator will light up in green continuously.

**7. Bluetooth APP/APK (Optional)****Connect the laser tool to Bluetooth APP/APK:****Step 1: Download APP/APK**

Method 1: Scan the QR code

Method 2: Search "Laser Controller" in iPhone App Store or "Levelsure" in Google Play

Method 3: Click the link below:

android: <https://play.google.com/store/apps/details?id=com.insona.laser.levelsure>

iOS: <https://apps.apple.com/us/app/laser-controller/id1578608684> <http://xwayserver.pairlink.com.cn/79813391439>



Step 2: Turn on Bluetooth on your phone



Step 3: Power on the laser tool

Step 4: Open APP/APK software

Step 5: Complete the Bluetooth match and connection with the laser tool

- If the connection fails, please exit the APP/APK software and restart the APP/APK software to restore the connection.
- The laser tool can connect two phones at the same time, whether on Android or iOS.

Step 6: Click "Z Series" to enter the operation interface



### Function Introduction:

- 1.Smart Pendulum Lock Status: The unlocked or locked icon indicates the status of the pendulum.
- 2.Bluetooth Connection Status
- 3.Laser Tool Status Reminder: Under self-leveling mode, icon (3) will be displayed as reminder if the tool is beyond self-leveling range.
- 4.Click the icon once to switch ON / OFF all laser lines in one click:
  - In Self-leveling Mode, when click the icon , all laser lines will be switched OFF temporarily while the laser tool remains powered on. When moving the laser tool, the laser beam(s) will blink fast to remind you the laser tool has not been powered off.
  - In Manual Mode, when all laser lines is switched OFF by clicking the icon , the laser tool will Automatically Turn OFF after about 5 minutes of inactivity. Click the icon within 5 minutes again will reactivate the laser tool.
  - To turn off or store the laser tool, please be sure to slide the pendulum to the locked

position.

5.Battery Status: When Li-ion battery installed, icon will be displayed. When AA batteries installed, icon will be displayed. When no battery installed, icon will be displayed.

6.The composition of laser lines

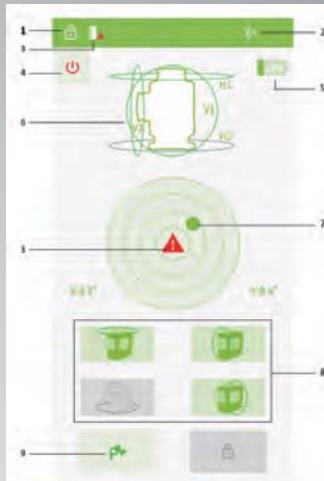
7.Bubble Level

8.Different compositions of different laser lines

9.Switch ON/OFF the pulse mode

### NOTE

- Do not use the laser tool with Bluetooth in the vicinity of gas stations, chemical plants, areas where there is danger of explosion and areas subject to blasting.
- Please read thoroughly and comply with the Safety Instructions and User Manual of the laser tool.
- Do not use the laser level with Bluetooth in airplanes. Do not use the laser level with Bluetooth in the vicinity of medical devices(eg., cardiac pacemakers, hearing aids). This may cause interference.
- The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by is under license.



### 8.After-Sales Service E-mail

For questions about this or any other Products, please email us:

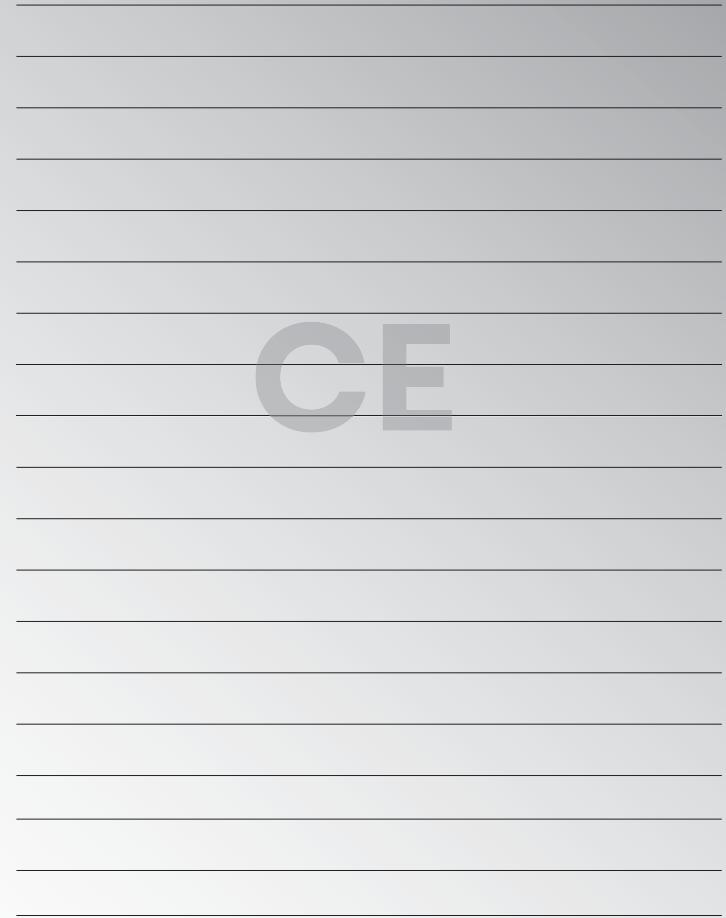
**Thank you for buying our item!**

Dear Valued Customer:

Thank you for your order. Hope you had happy shopping experience from our store.

We hope this product is working well for you.

Many Thanks and hope you enjoying shopping with us.Your Sincerely.



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