

Light Lift

Owner's Manual  
and  
Installation Guide

# **INSTALLATION INSTRUCTIONS**

## **READ ALL OF THESE INSTALLATION INSTRUCTIONS BEFORE INSTALLING THE LIGHT LIFT**

### **SAVE THESE INSTRUCTIONS**

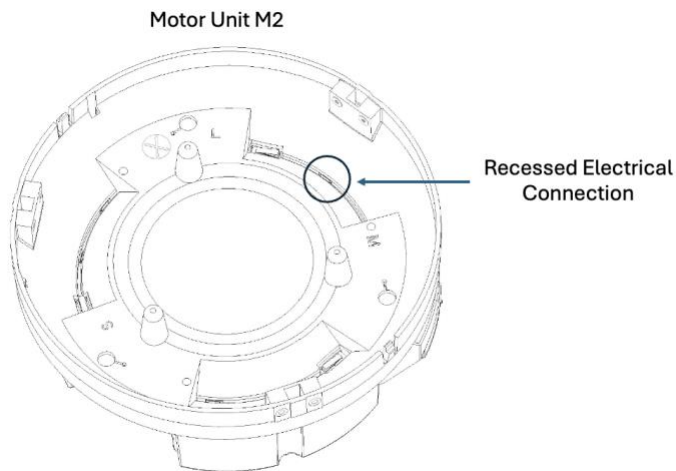
#### **Overview**

1. The Light Lift is designed to be used with a light fixture or ceiling fan.
2. The Light Lift must be installed on a level ceiling
3. The Light Lift can be lowered a maximum of 17 feet
  - a. The APP will prevent it from extending beyond that limit
4. The Light Lift can be installed on a ceiling with joists up to 20 inches on center
5. Light Lift utilizes only your existing wiring to the junction box. Only one power source is required to both power your fixture and operate the Light Lift. No new power or wiring needs to be run.
6. The Light Lift is intended to be installed on a finished ceiling into a junction box which is rated to hold at least 50lbs, minimally meeting ANSI/UL 514Cm Standard for Outlet Boxes and Fittings.
  - a. In addition to securing to the junction box, Light Lift needs to be secured to a ceiling joist to offset the weight of the unit to allow for the full 50lbs of the junction box to be available for the fixture.
7. From opening the box to the final step of installation is approximately 20 minutes, with just two trips up a ladder
  - a. There is no need to open the ceiling and NO ACCESS is needed via the attic
  - b. Therefore, NO CEILING REPAIR is required
  - c. Only existing wiring is required – there is no separate wiring needed to either power the Light Lift or for a hard-wired control
8. Once installation of the Light Lift is complete, installation of a fan or light fixture is just like installing it into the original junction box in the ceiling itself, as the Light Lift wiring mimics it
9. When operating the Light Lift, if the building power source has a dimmer which adjusts the power in the wiring leading to the Light Lift, adjust the dimmer to maximum power to prevent damage to the unit and to ensure proper operation of the Light Lift, as the motor of the Light Lift needs the full power of the circuit to engage the motor.
  - a. If there is less power than needed, Light Lift will prevent the use of the motor to protect itself
10. Always wait at least 3 seconds when changing direction of the motor as well as advancing in the same direction between stopping and starting the motor
  - a. The app will show a timer to prevent excessive stop/starting of the motor if it is attempted
11. For the fan or light to receive power when retracted to the ceiling, the moveable lower unit M2A MUST remain parallel to the part affixed to the ceiling
  - a. If the fan or light's center of gravity is slightly off center, the lower unit may be manually adjusted via threaded ends of each wire. See "Troubleshooting"

## WARNINGS

### Safety

1. Light Lift is designed for indoor use only. To reduce the risk of electric shock, do not expose to rain and use and store the Light Lift indoors only.
2. Light Lift should be installed only by a qualified electrician
3. To prevent damage to the Light Lift, never operate the Light Lift without at least the weight of moveable Lower Unit M2A hanging freely and tension on each of the three wires. See Installation Step 4
4. Do not modify the length of the wires or any other component of the Light Lift
5. Never operate the Light Lift while standing directly below it
6. Always disconnect/de-energize the power source when installing the unit
7. The Light Lift is ETL Certified
8. The Light Lift has redundant safety mechanisms to prevent accidental lowering of the unit.
  - a. While retracted, the motor itself has a brake to prevent the unit from lowering
  - b. If the motor fails, a mechanical brake outside of the motor will prevent the lower unit M3A from falling
9. To help prevent the lowering of the unit onto yourself or others, never operate the Light Lift if you are not nearby and cannot physically see the unit
  - a. **WARNING — DO NOT STAND UNDER LIFT**
  - b. **WARNING — 50 LB MAXIMUM LOAD**
  - c. **WARNING — KEEP SUSPENSION WIRES UNDER TENSION**
10. Power to the lowered part of the Light Lift is disconnected when it is detached from the upper part, which remains at the ceiling
  - a. All electrical connections in the upper part of the Light Lift are recessed, so there is no exposed wiring, reducing the chance of a shock



## **Controlling the Light Lift**

The Light Lift is operated via a mobile APP, either Apple or Android, and connected via Bluetooth, not wifi, so no network setup is required

- To help prevent the lowering of the unit onto yourself or others, never operate the Light Lift if you are not nearby and cannot physically see the unit
  - WARNING — DO NOT STAND UNDER LIFT
  - WARNING — 50 LB MAXIMUM LOAD
  - WARNING — KEEP SUSPENSION WIRES UNDER TENSION
- One mobile device can control as many Light Lifts as you have in one property or across multiple properties
  - Multiple mobile devices can control the same Light Lift
    - Each Light Lift can be renamed to one of your choosing
      - The name is stored in the Light Lift itself and will automatically show as the same name across all mobile devices on which it is installed
- While it is not required, each Light Lift can have its own unique password, so only those that are authorized can operate it
- The APP allows for raising and lowering to whatever height you want within the 17 foot range of the unit
- You can fully raise the Light Lift with one touch (press and release the “fully raise” button) – it knows when it is all the way up

## **Duty Cycle**

The Light Lift is not designed for constant use, thus after each usage of 15 minutes, allow the motor to rest for 5 minutes prior to additional operation

- The unit will not allow operation beyond the duty cycle.
- The APP will display a message to the user to wait should usage be attempted greater than the duty cycle

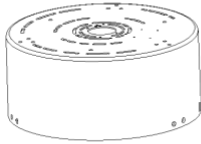
## **Warranty**

The Light Lift is backed by a 1-year limited warranty

# Installation

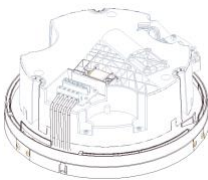
## Parts List

- a. Main Housing M1

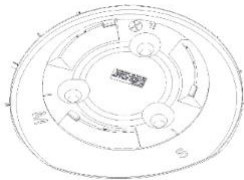


- b. Motor Unit M2    Lower Unit M2A – Shipped nested within the Motor Unit M2

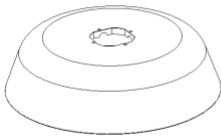
M2



M2A



- c. Decorative Cover M3



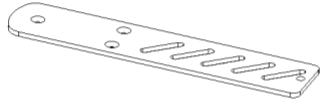
- d. Lag Bolts (2) S1



- e. Decorative Cover Screws (4) S2

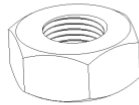


f. Extension Arm A1 (2)



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g. Extension Arm Screw S3 (6), Nut N1 (6) and Washer W1 (6)



h. Decorative Cover Screw Cover Sticker C1 (4)



i. Junction Box Screw S4 (2)

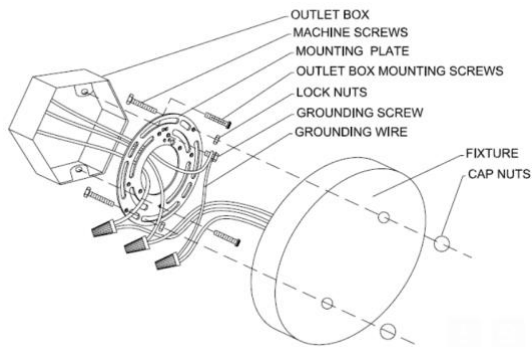


j. Set Screws S5 (6)

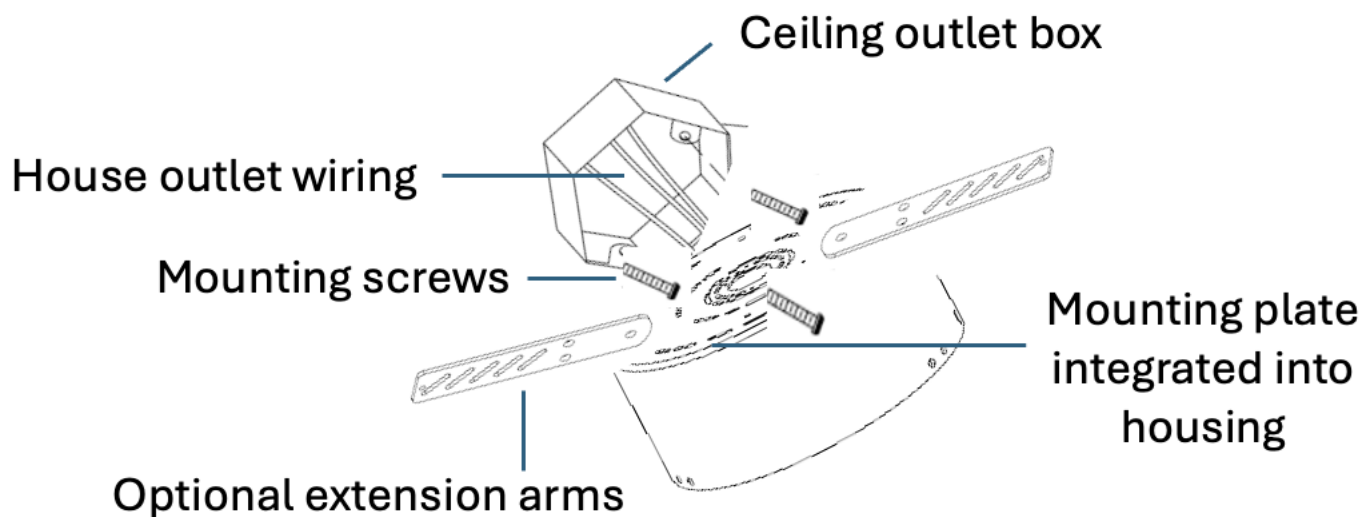


## Step 1 – Mount Housing

Per Mark at STG, he suggested a view of the housing connected to the junction box like this:



Rough Sketch – can a talented person make this pretty?:

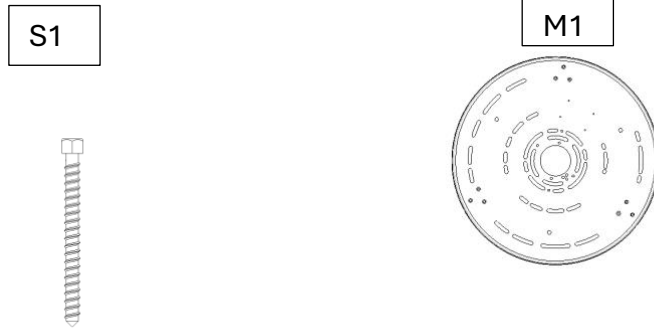


- a) Attach the Main Housing M1 to the box in the ceiling, utilizing the existing pattern for screws in the ceiling box
  - i. Attach with supplied Junction Box Screws S4 (2)

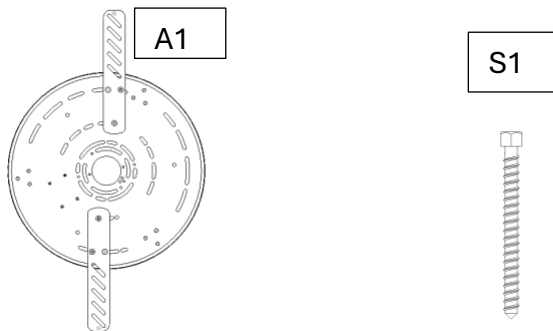


- ii. Ensure original wiring is threaded through the hole in the Main Housing M1

- b) If there is NO joist within the diameter of the Main Housing M1, go to (c), otherwise:
- Secure the Main Housing M1 to the joist with at least one, optimally (2) two, supplied Lag Bolts S1 through the slots in the universal mounting plate of the Main Housing M1

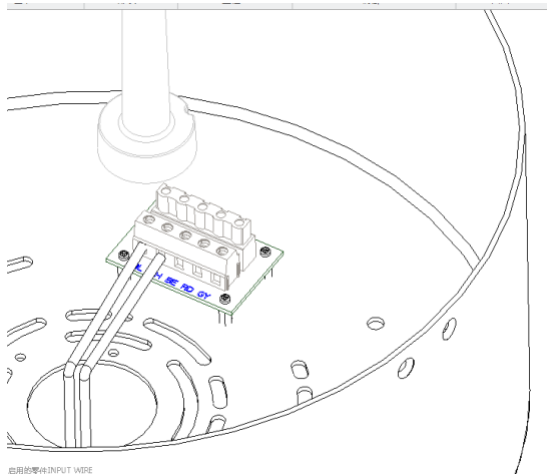


- In addition, screws and anchors are included for optional installation outside of a joist.
  - Go to Step 2
- c) Fasten both Extension Arms A1 to the top of the Main Housing M1 with the provided Extension Arm Screws (S3), Nuts (N1) and Washers (W1).
- Align them so that they will reach joists
  - Secure the Extension Arms A1 to the joist with the provided Lag Bolts S1



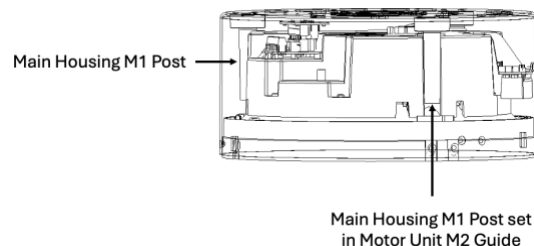
## Step 2

- a) Install the wiring required for the fan or light into the terminal block in the Main Housing M1
  - a. The terminal block is labeled for the colors of the wires, which also map to the wiring in the box in the Lower Unit M2A of the Light Lift to which the fan or light is installed



## Step 3

- a) Insert the Motor Unit M2 into the Main Housing M1
  - a. The Motor Unit M1 must be inserted in the orientation that lines up the two parts of the terminal block– one part of the terminal block in the Main Housing M1 and other the part is on the top of the Motor Unit M2
    - i. There are three posts in the Main Housing M1 and three guides built into the Motor Unit M2 which help ensure proper alignment



- b. Note that once installed, the Motor Unit M2 has tabs that hold it in place in the Main Housing M1 to make the next step (b) easier
- b) Install (3) three pairs of supplied Set Screws S5 through the Main Housing M1 into the Motor Unit M2
  - a. Each pair of Set Screws S5 are installed equidistant from each other around the circumference of the Main Housing M1
- c) Ensure the lower unit M2A hangs parallel with the Motor Unit M1. If it is not and needs to be adjusted, see the Troubleshooting section below for instructions how to adjust

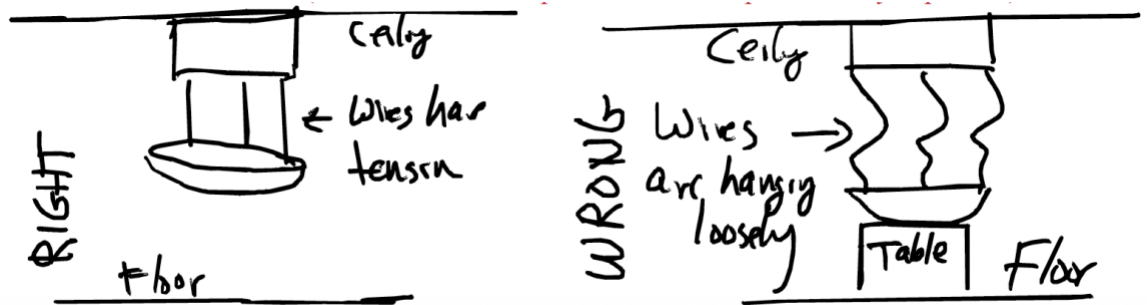
## Step 4

- a) Download and install the Light Lift APP to your Apple or Android Mobile device
  - a. Find it in the App Store or Play Store as “Light Lift” (TBD)

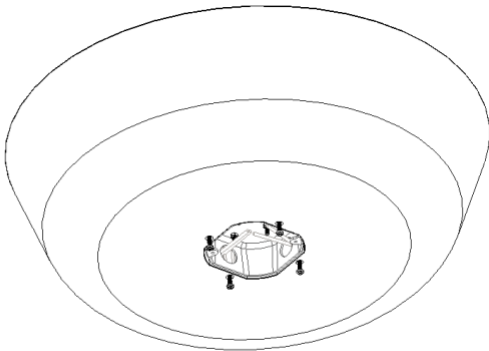


- b. Lower the Light Lift to a comfortable height
- c. Ensure that it is NOT lowered to a point where each of the (3) three wires will not have full tension on them when it is time to raise the Light Lift
  - i. If any of the wires on the Light Lift are obstructed and each of the wires do not have full tension on them, immediate damage will occur when operating the Light Lift

*Note Professional renderings of drawing to be included in production version*



- b) Install the Decorative Cover M3 utilizing the (4) four Decorative Cover Screws S2



- a. If desired, cover the screws with the supplied white Decorative Cover Screw Cover Stickers C1

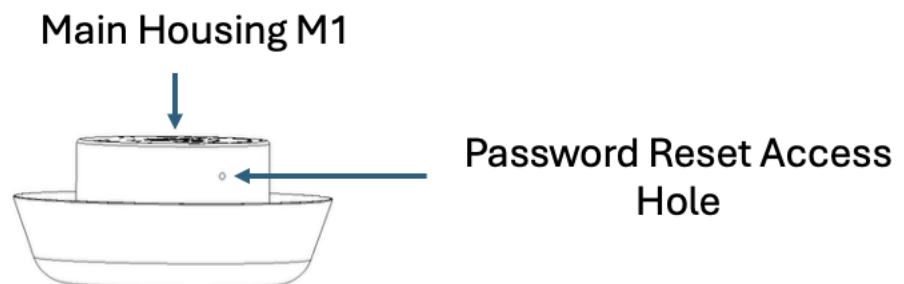
You are now ready to install your fan or light to the junction box on the Light Lift, just as if you were installing it to the original junction box in your ceiling

You do not need to raise the Light Lift to install the fan or light, but can install it from a comfortable position while the unit is lowered

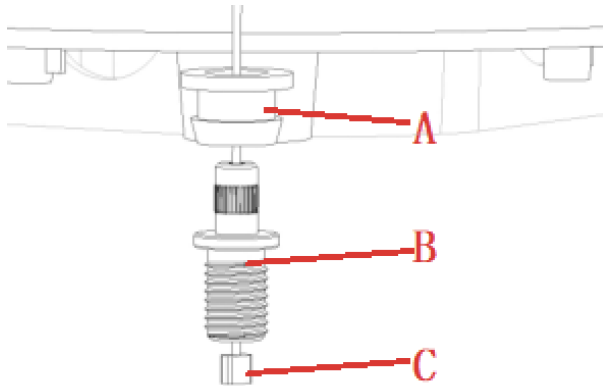
Once your fixture is installed, raise the unit to the ceiling and enjoy easy cleaning and maintenance of it going forward

## Troubleshooting

- My Light Lift does not operate
  - Check if you have a dimmer that the power is on full
  - Check that Bluetooth is enabled on your mobile device and you are connected properly to the Light Lift
  - If the Light Lift has a password set up, confirm it is entered in the APP
    - If it has a password and you do not know it, you CANNOT reset the password from the mobile APP
      - This is by design to facilitate a new owner of a property using the APP as they may not be able to contact the previous owner to get the existing password
    - To reset the password on the Light Lift itself, on the APP go to “reset password”
      - There will be a button to click that will lower the Light Lift two feet
      - Once lowered, on the Light Lift Main Housing M1 you will see a hole that allows access to a button to remove the password
      - Insert a pin into the hole and press the button to remove the password



- There is no power to my fixture or the lower unit is not parallel to the ceiling
  - Check connections to the terminal block (if a power issue)
  - Check that the Lower Unit M2A (the moveable part) of the Light Lift is parallel to the part fastened to the ceiling
    - If it is even slightly off, lower the Light Lift and adjust the angle of the lower unit by adjusting the moveable ends of each wire as needed until it is parallel to the Main Housing M1. After adjusting, be sure to seat the wire end into the cap which holds the wire end in its place in Lower Unit M2A
    - Wire placement and adjustment assembly



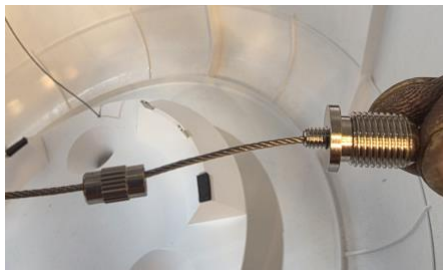
- a) Rubber sleeve to prevent wire end from inadvertently coming loose
    - b) Metal wire-end assembly which determines length of wire
    - c) Metal stopper welded onto wire to prevent assembly from coming free
  - ii. To adjust the length of the wire:

Remove (a) the rubber sleeve holding the wire end in place.

- a) Note that for safety purposes, the rubber sleeve is intentionally tight and tough to remove and install



Unscrew the cap covering the wire release button



Press in the wire release button and move the wire end to the desired position

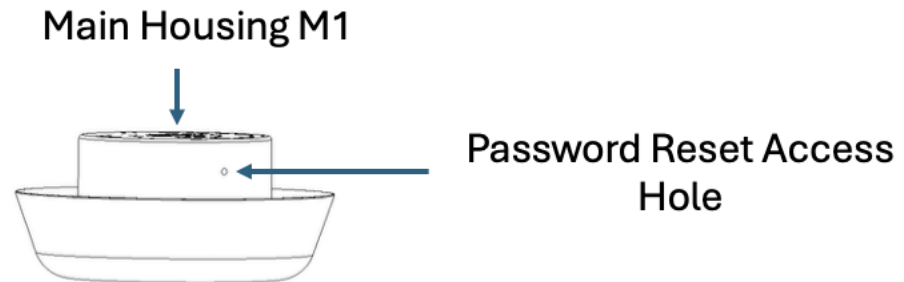


Re-install the cap, place the wire end back in the lower unit receptacle and reinstall the rubber cover.

Ensure the wire end and rubber cover are properly placed prior to raising the lower unit

- The APP password is unknown (note that each Light Lift in the App has its own password – they are not shared across units)
  - Note that you CANNOT reset the password from the mobile APP

- This is by design to facilitate a new owner of a property using the APP as they may not be able to contact the previous owner to get the existing password
- To reset the password on the Light Lift itself, on the APP go to “reset password”
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- If questions, contact Innovations Lighting customer service at xxx.xxx.xxxx

### Technical Specifications

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| <b>Model Number</b>              | <b>1050-LL</b>                                 |
| <b>Suitable Location</b>         | <b>Indoor Use Only – do not expose to rain</b> |
| <b>Rated Input Voltage</b>       | <b>100 – 240 VAC</b>                           |
| <b>Rated Frequency</b>           | <b>50/60Hz</b>                                 |
| <b>Rated current for wire</b>    | <b>10A</b>                                     |
| <b>Maximum Lift Weight</b>       | <b>50 lbs</b>                                  |
| <b>Maximum Distance to Lower</b> | <b>17 Feet</b>                                 |
| <b>Packing Dimension</b>         | <b>20.7in x 20.7in x 10in</b>                  |
| <b>Gross Weight</b>              | <b>23 lbs</b>                                  |

## FCC STATEMENT

1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

### FCC Radiation Exposure Statement:

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