

CG102IR

ZIGBEE IR TRANSMITTER

USER MANUAL



CG102IR
ZigBee IR Transmitter

VERSION 0.1

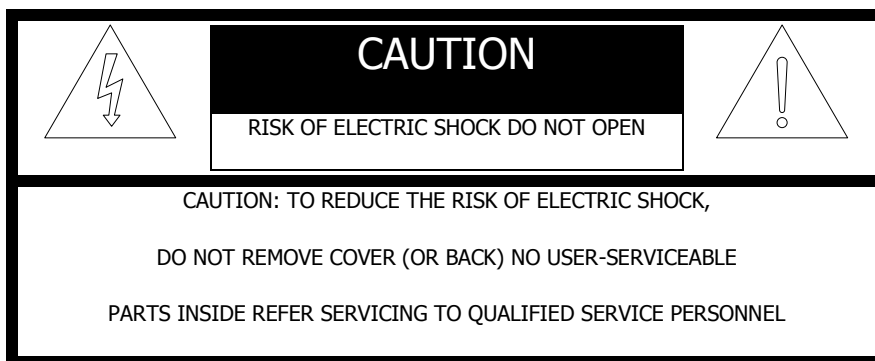
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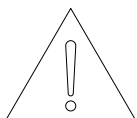
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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards.

There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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1. Introduction

Thank you for buying Citygrow's product. CG102IR ZigBee IR Transmitter is both powerful and easy to use and install. The learning IR function allows you to learn most of the IR commands, for example the air-conditionar, the audio or video equipment.

Description:

1. ZigBee wireless remote control.
2. Based on IEEE 802.15.4.
3. 2.4GHz radio frequency.
4. IR learning function from original IR remotes.
5. IR learning by Citygrow's IR Master PC software.
6. Work with Citygrow's CG102BS Base station and HomeNET App.
7. Mobile phone or tablet control for audio, video, A/C, DVD, TV, Amplifier and all kind of IR controlled equipment.
8. Multi-room automation control is supported.
9. Wall mounting on BS4662 Wall box.
10. Ceiling mount by supplied stand.
11. Table stand by supplied stand.
12. IR extension cable for hidden mounting.
13. Powered by supplied AC/DC power adaptor.



CG102IR
ZigBee IR
Transmitter



IR extension cable
(Not included) 1

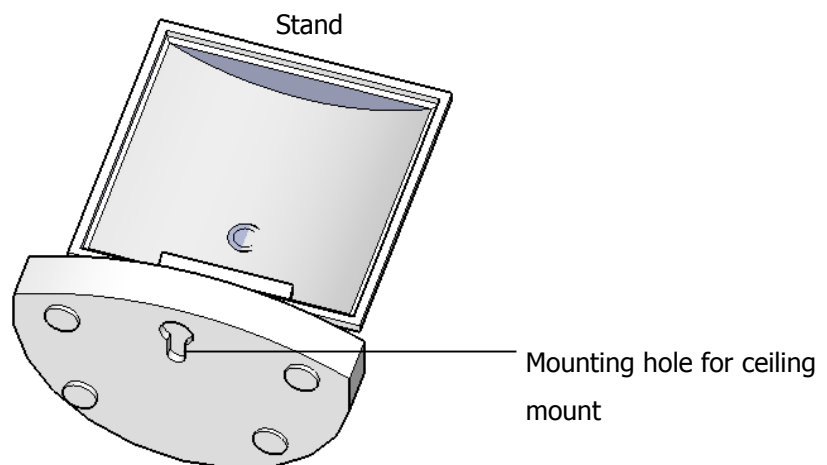
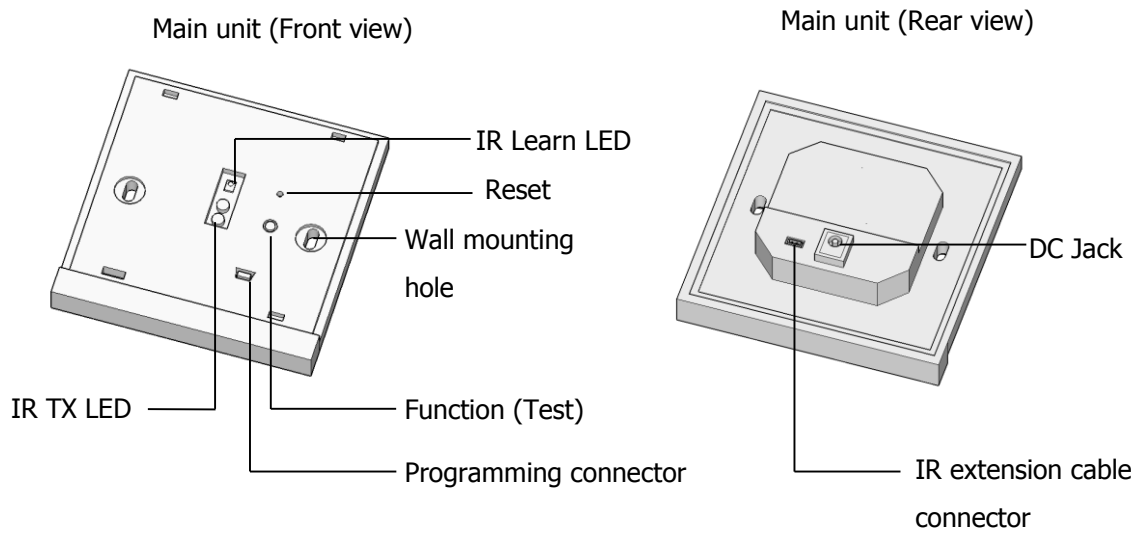
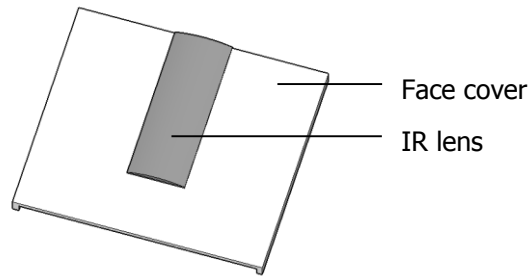


Power adaptor
(included)



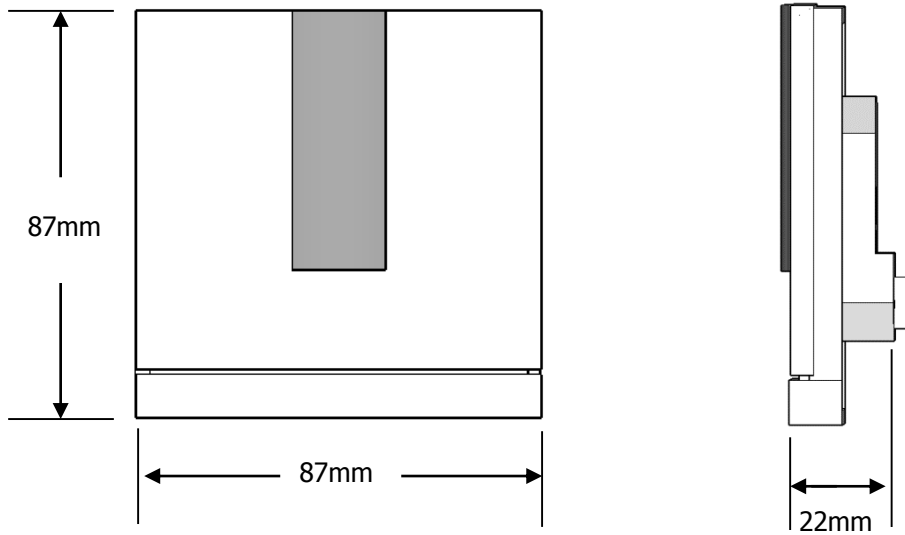
CG101AD
mini power supply
(Not included)

2. Understanding of the product

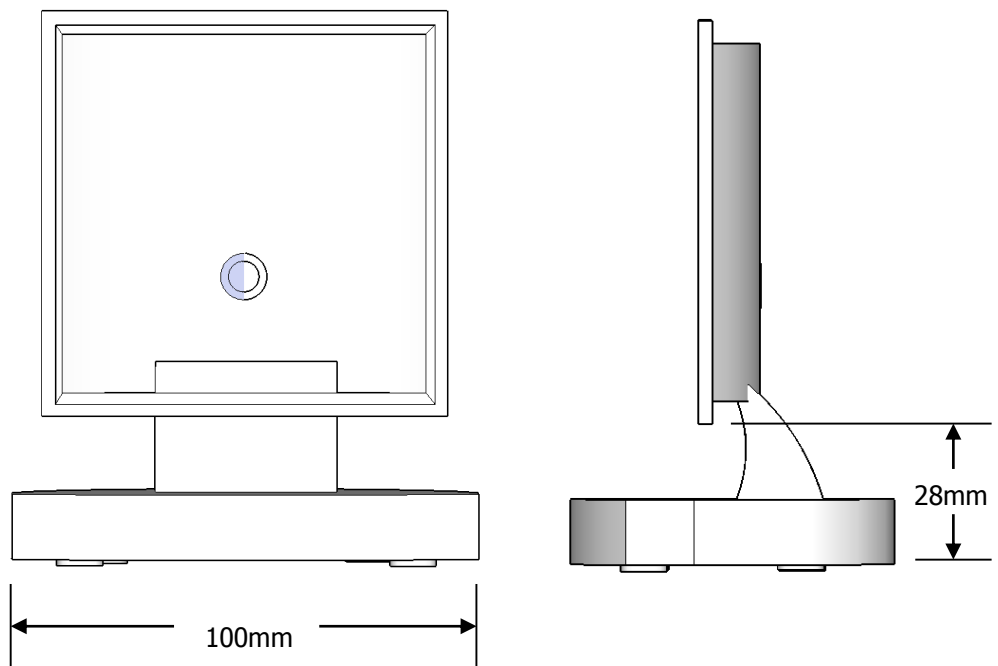


3. Dimensions

Main unit



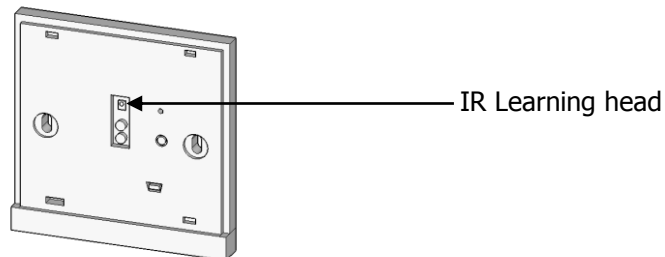
Stand



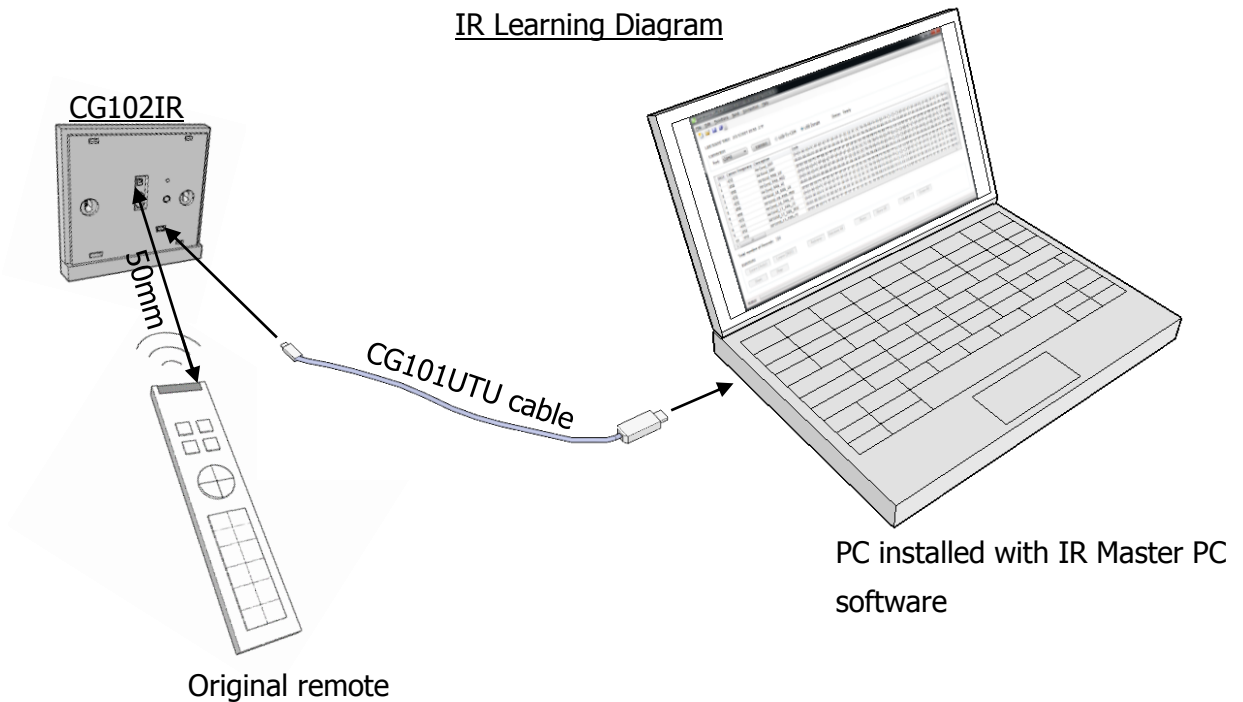
4. IR Learning

Before installing the CG102IR, it is advised to learn the IR codes from the original remote of your appliances to the CG102IR first.

Step 1: Remove the front cover of CG102IR, you will see the IR learning head.



Step 2: Install "IR Master PC software" into Window PC.(Window XP or later version.). Then, connect CG101UTU cable (Not included), from PC to CG102IR USB port. Please note you do not need to connect AC power adaptor to CG102IR, since the USB will power up the CG102IR. Then, run IR Master PC software.



Step 3: Inside the PC user interface, select “connect” and so PC is connected to CG102IR.

Step 4: Place the original IR remote in front of the CG102IR IR learning head, the best distance is 50mm from the IR learning head.

Step 5: Press the button you intent to learn from the original IR remote “once”.

Step 6: The IR Master PC software will show “Success”, then you may input the description of this button for future use.

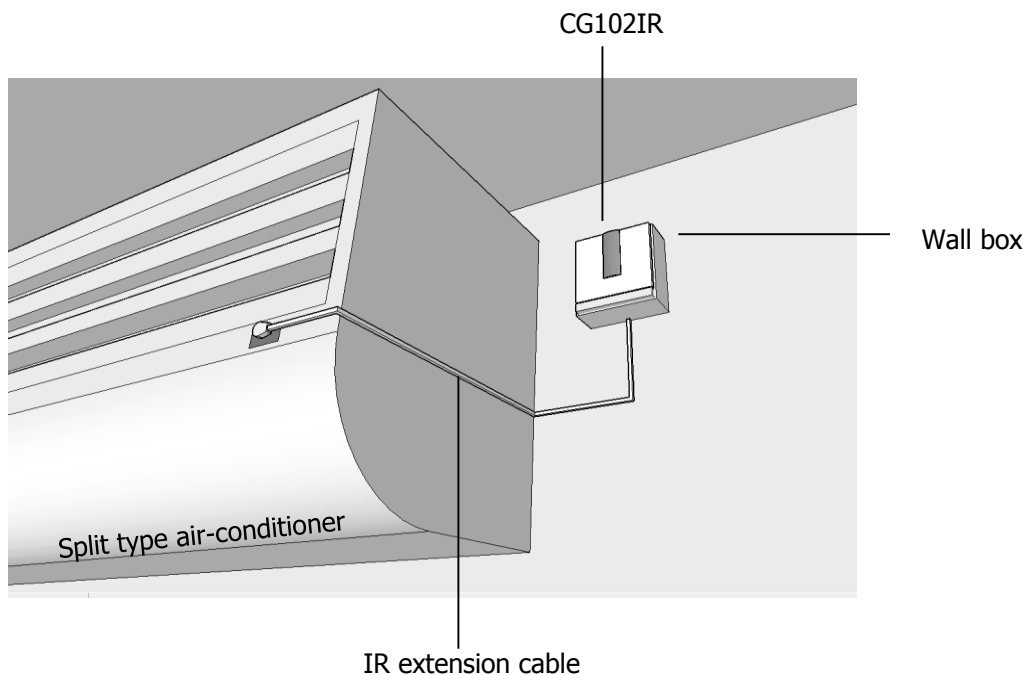
Step 7: When you finish learning all the IR codes, maximum 60 codes, you should save the file and give a file name for it.

Step 8: Referring to the manual of HomeNET Planner PC software, you will be guided to import the saved IR file into HomeNET Planner for your programming of the panels or iPad/iPhone/Android mobile device control.

5. Installation

After the IR code learning process, you can install the product now.

5.1. Case 1: Control the Split type air-conditioner



Before getting started



WARNING! It must be installed by a qualified electrician in accordance with all applicable regulations and building codes. Improper wiring can result in personal injury or damage to control units or other equipment. Always turn off circuit breaker or remove main fuse from power line before doing any work. To avoid overheating and possible damage to equipment.



WARNING! Do not operate when any lamps removed or burned out; replace any burned out lamps immediately; use only transformers that incorporate thermal protection or fused primary windings. ! This product is designed for residential and commercial use, for indoor use only.



WARNING! Install in accordance with all national and local electrical codes.

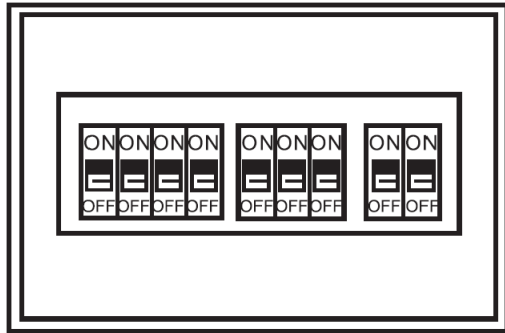


IMPORTANT! Citygrow® is not liable for any damage incurred with the misuse of this product.

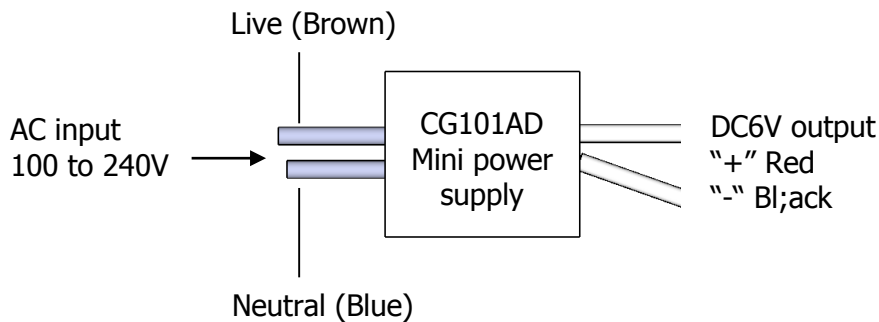


IMPORTANT! Pre-setup can only be done by a professional worker or manufacturer agent.

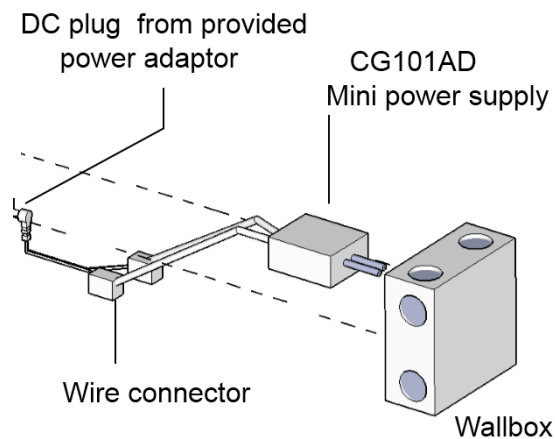
STEP 1: IMPORTANT! Turn off main power at the main switch board.



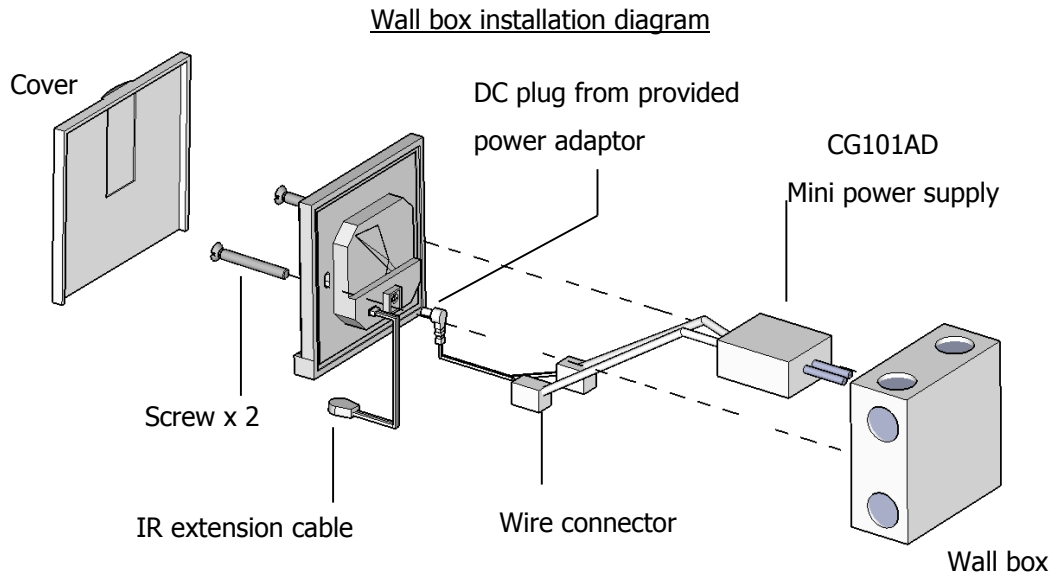
STEP 2: Connect the main power cable from the wall box to the Live and Neutral wires of the CG101AD Mini Power Supply (purchase separately).
Make sure the Live is connected to the Brown wire (Live) and Neutral is connected to Blue wire (neutral) of CG101AD.



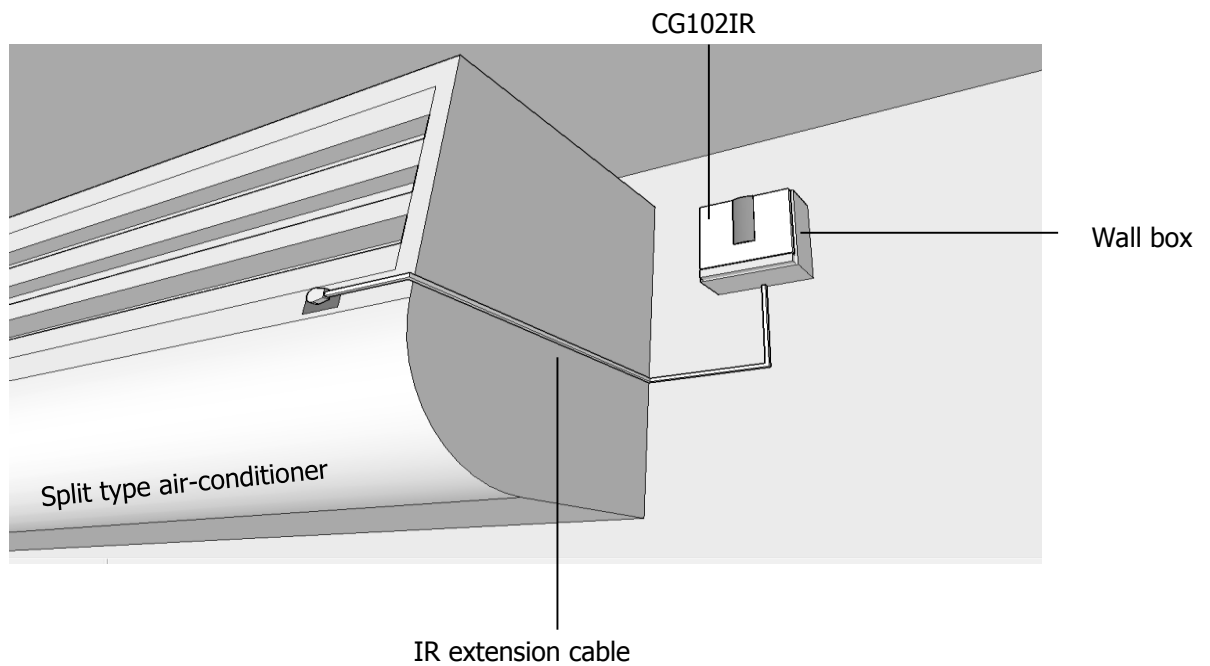
STEP 3: Make sure the DC output from CG101AD, red wire (positive) and black wire (negative) is correctly connected to the "DC plug of the provided power adaptor", DC plug is "center positive". See following...



STEP 4: Plug the DC plug into the DC jack input of CG102IR, then plug the IR extension cable into the rear of CG102IR. Then, install CG102IR by fastening the two screws onto the wall box. See following.....



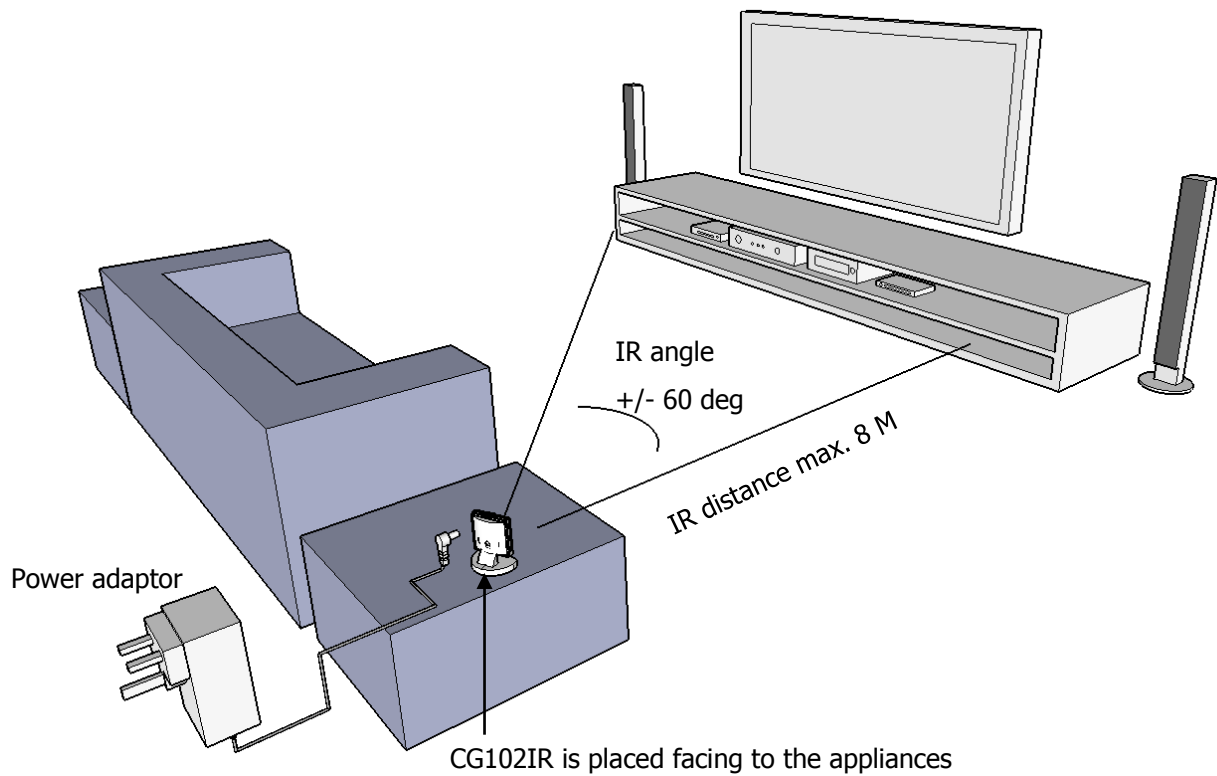
Step 5: Route the IR extension cable to the IR receiver window of the A/C. See following diagram.



5.2. Case 2: Table stand

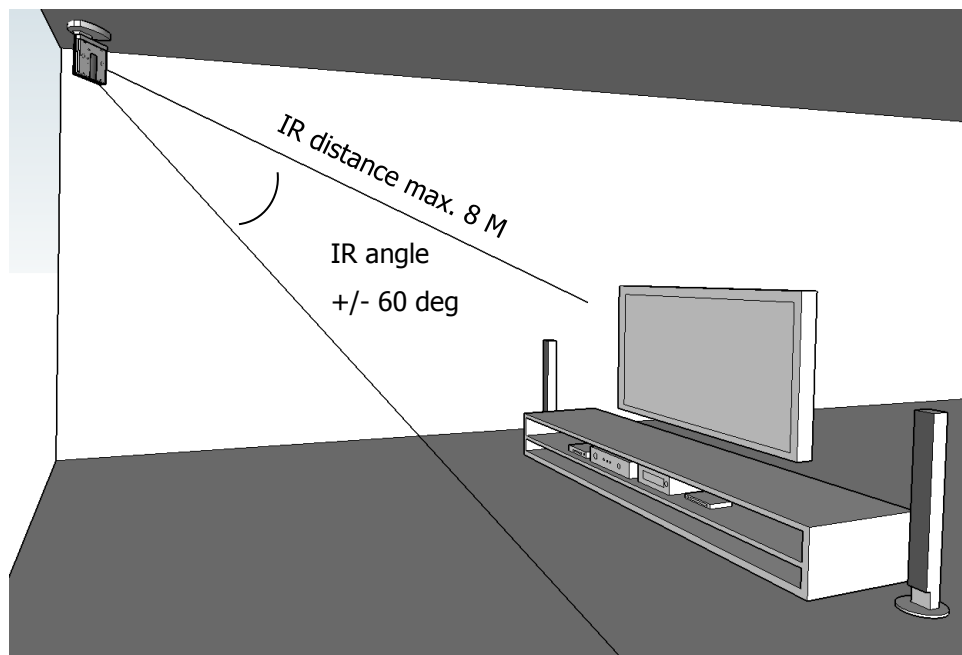
STEP 1: Select a location to place your CG102IR, the best location will be maximum 8 meters away from the appliances and the IR angle coverage is +/-60 degree.

Secondly, it is recommended to locate the product at a location that the IR transmission will not be blocked by objects or human.



5.3. Case 2: Ceiling mount

STEP 1: Select a location to place your CG102IR, the maximum distance will be maximum 8 meters away from the appliances and the IR angle coverage is +/-60 degree.

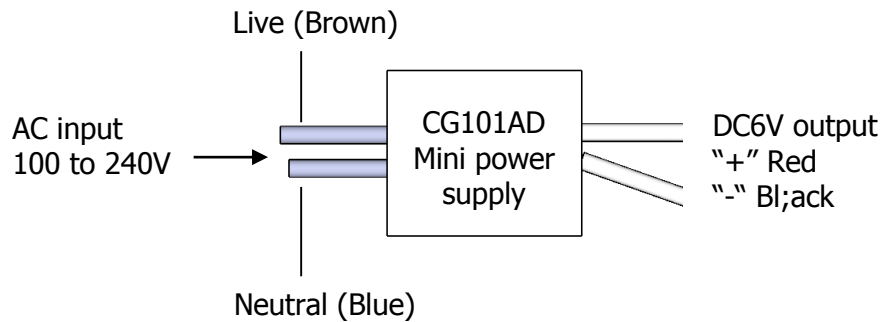


STEP 2: Power up the CG102IR by provided power adaptor or CG101AD mini power supply (purchase separately).

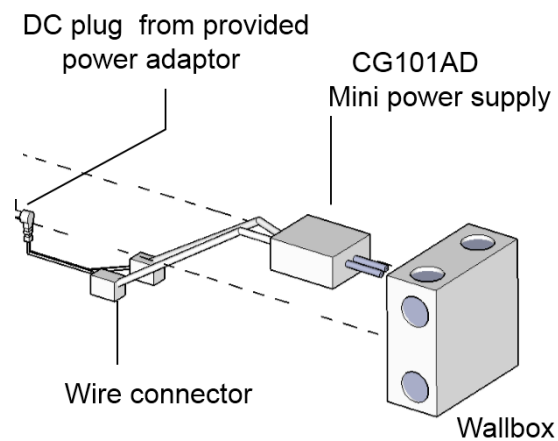
If you select to use CG101AD mini power supply as power supply, follow the steps below:

- Connect the main power cable from the wall box to the Live and Neutral wires of the CG101AD Mini Power Supply (purchase separately).

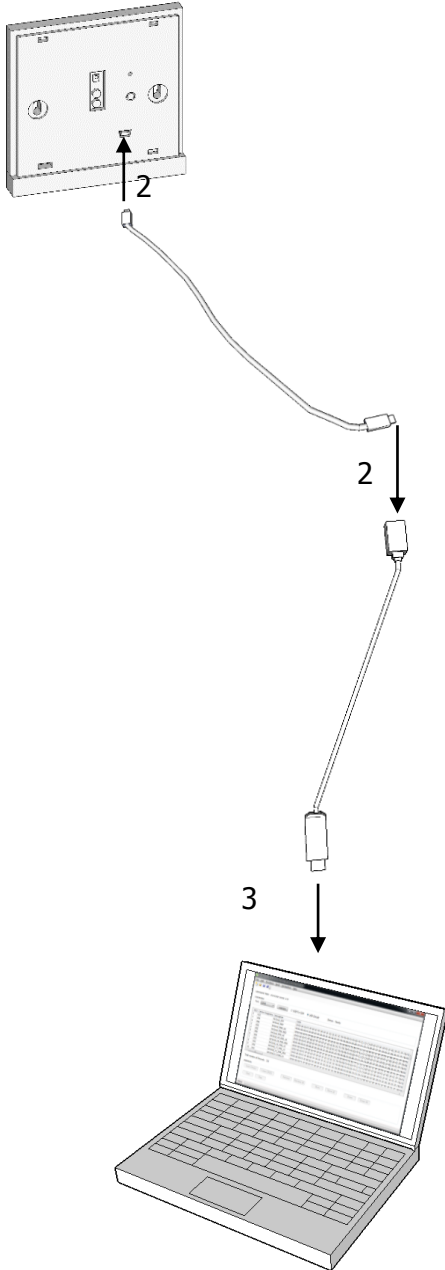
- Make sure the Live is connected to the Brown wire (Live) and Neutral is connected to Blue wire (neutral) of CG101AD.



- Make sure the DC output from CG101AD, red wire (positive) and black wire (negative) is correctly connected to the "DC plug of the provided power adaptor", DC plug is "center positive". See following...



6. Adding the product to your Home Wireless ZigBee Network

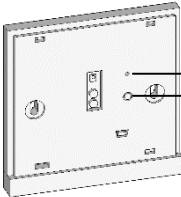
 <p>The diagram illustrates the connection process in three steps. Step 1 shows a cable being plugged into the USB socket of a device. Step 2 shows the other end of the cable being plugged into the mini USB end of the CG101UTC cable. Step 3 shows the CG101UTC cable being plugged into the USB port of a laptop.</p>	<p>STEP 1</p> <p>Open the front cover, you will see and USB socket.</p> <p>STEP 2</p> <p>Plug the CG101UTU cable into the USB socket of the product, and then plug the other end of the CG101UTU cable into the mini USB end of the CG101UTC cable.</p> <p>STEP 3</p> <p>Plug the CG101UTC cable into the USB port of a PC that is installed with Citygrow's HomeNET Planner Software.</p> <p>STEP 4</p> <p>Refer to the user manual of "HomeNET Planner" Software to program and set the address of the product.</p>
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7. Clear Memory

Clearing the memory inside of the product will result in:

1. The product will no longer reply to any Panels that it had previously bound to.
2. The product will no longer reply to any Remotes that it had previously bound to.

In order to perform the Clear Memory function, please follow the below steps:

 <p>Reset Func button</p>	<p>STEP 1</p> <ul style="list-style-type: none"> - Press and HOLD Func button
	<p>STEP 2</p> <ul style="list-style-type: none"> - CONTINUE holding onto the Func Button. - Press and release the Reset Button once.
	<p>STEP 3</p> <ul style="list-style-type: none"> - Wait until the LED Indicator begins BLINKING. - Release the Func Button.

	<p>STEP 4</p> <ul style="list-style-type: none">- Press and release the Func Button again to stop blinking.
	<p>STEP 5</p> <ul style="list-style-type: none">- Press and release the Reset Button.- The memory inside of the product has now been cleared.

8. Specification

Item	Specification
Power Supply	AC adaptor Output DC6V 500mA
IR transmission range	8M
IR transmission angle	+/- 60 degree
Best IR learning distance	15 to 80mm from the IR learn LED
Maximum storage for IR learning code	60 codes
RF frequency	2.4GHZ
RF control distance (M, line of sight)	100M
Dimensions mm (Length x Width x Depth)	87x87x22
Recommended operation temperature	0 to 40 degC