



iWiscloud™ Infrared / Multi-frequency
Control Signal Transmitter (CST)



<http://en.iwiscloud.com>



Warning:

Please do not attempt to dismantle this delicate product, willful manipulation might lead to electrical failure. Warranty will be void if product is found to be tampered with.

Disclaimer:

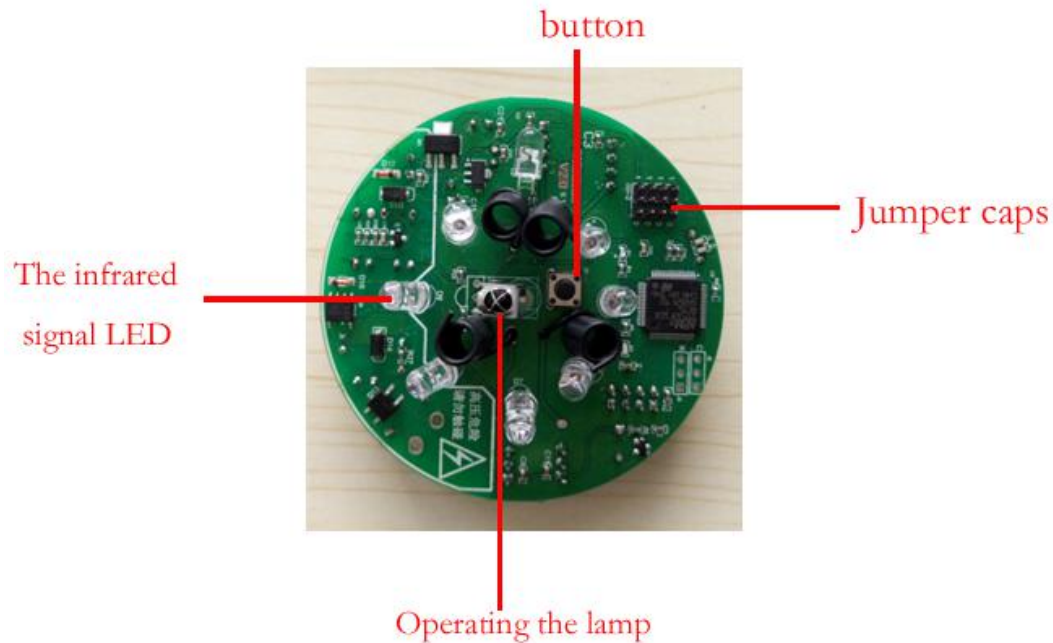
This is not a standalone product; It must be deployed with either iWiscloud Smart Home Control Center or Wisbox Mini.

There might be discrepancies with this manual and the product as the product is constantly being improved upon. For the latest manual please go to en.iwiscloud.com to download the latest product manual. This product is only to be used as intended any misuse will void the warranty of the product.

Both Multi-frequency Control Signal Transmitter (Infrared Signal, 315MHz, 433 MHz) and Infrared Control Signal Transmitter have similar functionalities and hereinafter generally referred to as CST (Control Signal Transmitter).

1. Product introduction

This product had been designed and manufactured in accordance to strict International safety standards and achieved CE certifications.



1.1 Features

- Built-in Infrared, 315MHz, 433MHz Transceiver Module, allows receiving and transmitting control signals
- Each individual CST can pair with multiple devices, learn, mimic and store up to 200 control signals from existing remote controllers.
- Deployed together with either iWiscloud Smart Home Control Centre or Wisbox Mini, to achieve long distance remote existing control home appliance (Infraed/315&433MHz) via phone, tablet, or PC.
- With our propriety Nebula Protocol mesh extension capabilities, iWiscloud CSTs are able to receive control signals up to hundred floors apart.

1.2 Product Specifications

	Multi-frequency CST	Infrared CST
Voltage	100-240 V	DC 5V
Infrared effective range	≤ 10 meters	≤10 meters
Control signal storage	200	200
Maximum Tilt Level Angle	≤120°	≤120°
Maximum Vertical Angle	≤60°	≤60°
Recommended Installation	Between 5 ft. and 6.5 ft	Between 5 ft. and 6.5 ft

Height	$(1.5\text{m} \leq h \leq 2\text{m})$	$(1.5\text{m} \leq h \leq 2\text{m})$
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1.2 Proposed deployed locations

CSTs are similar to fixed universal remote controllers that can be deployed anywhere within your home (e.g. living room, bedroom, car garage, basement storage, kitchen) where you can realize centralize control of your existing remote control home appliances or controls such as air conditioner/heater, fan, television, audio set, motorized control (widows, curtains, shades, garage doors), etc.

2. Setting up

2.1 Installation Recommendations

Ensure the CST is located according to the figure below for the recommended position for installation. (Infrared signal controls the angle may be offset in position on the basis of this fixed adjustment).

Diagram 1 - Top View

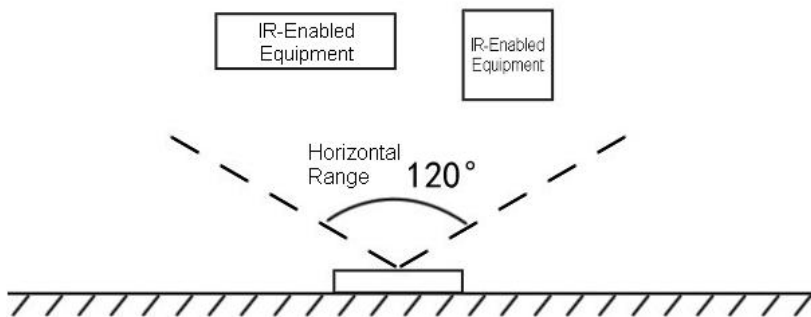
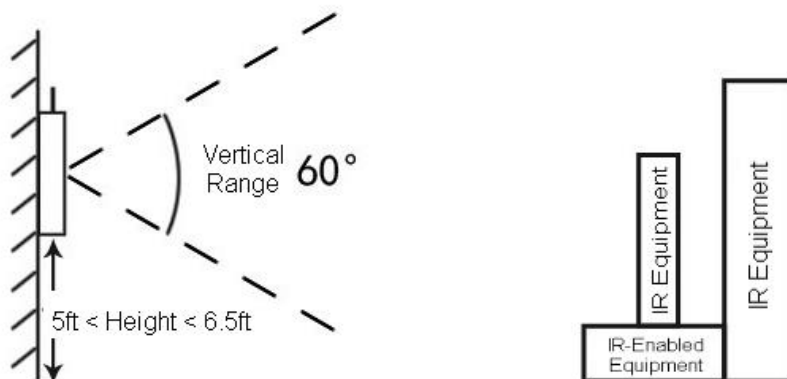


Diagram 2 – Side View



Points to note

- Please do not concurrently use other infrared device or wireless control while configuring the CST. This would help to prevent external interference.
- Please do not place the CST within an **enclosed metal cover as this will affect its wireless communication capabilities.**

2.2 Configuring multiple CSTs

User may require deploy multiple CSTs within different rooms (e.g. Living room, main bedroom, guestroom, etc.). To achieve centralized controls of the CSTs via iWiscloud Smart Home Control Center or Wisbox Mini, it is required to distinguish the CSTs. CSTs are being distinguish by the jumper cap(s) [see below diagram] placement to signify different rooms .

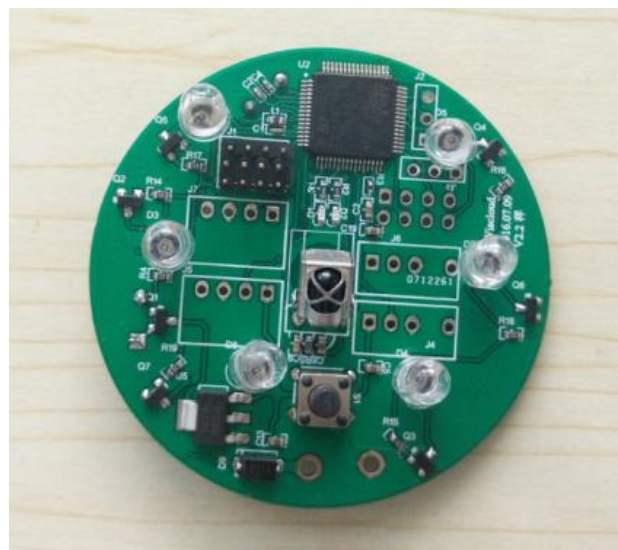


Jumper caps

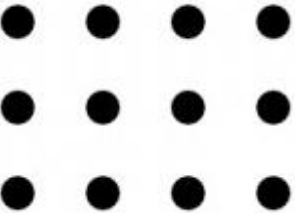
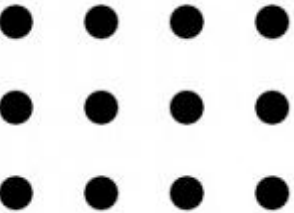
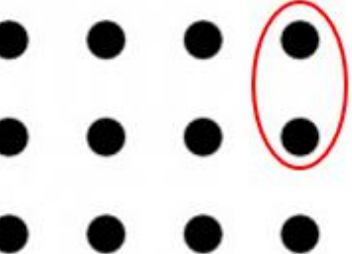
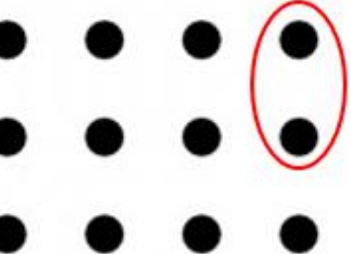
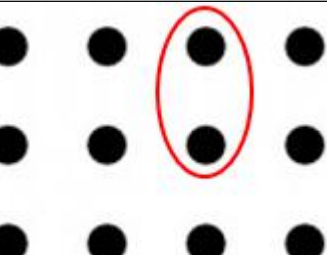
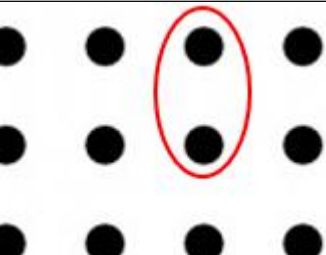
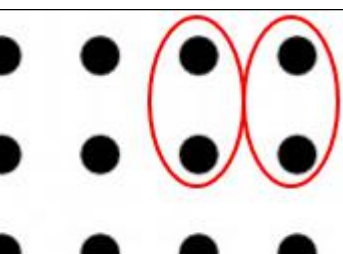
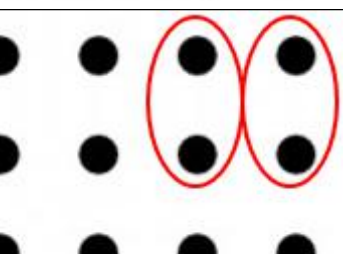
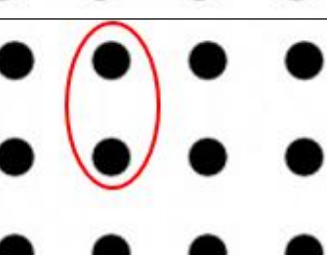
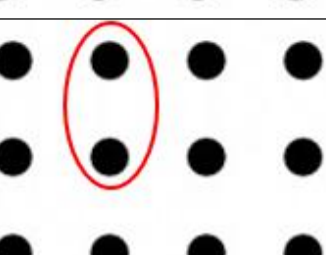
Multi-Frequencies CST

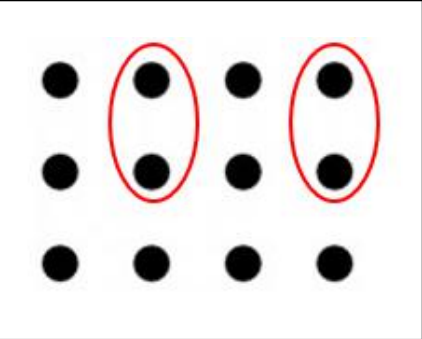
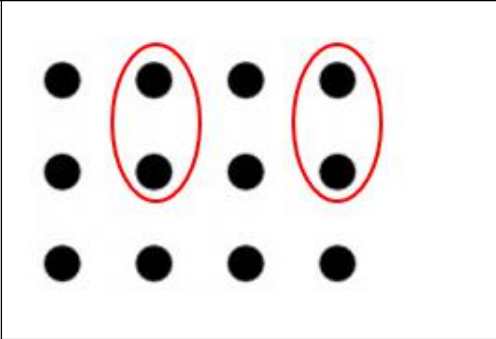


Infrared CST



Please see below illustrations on the **jumper** cap(s) placement configuration:

Code	Room/ Area	Multi-frequencies CST	Infrared CST
0000	1		
0001	2		
0010	3		
0011	4		
0100	5		

0101	6		
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Note:

- Without any jumper caps placed, the CST default configuration is for Room 1;
- For changing jumper caps settings, please ensure CST is electrical powered off;
- CST must be reset (see following paragraph) after jumper cap configuration changes;
- The position to place the jumper caps is different for both the Infrared control signal transmitter and the multi-frequency control signal transmitter. The jumper caps in will be placed in different positions for different room settings.

It is recommended to perform a CST factory reset for every new deployment. It is performed by pressing on to the “Reset” button on the circuit board for continuous 3 beeps onwards.

2.3 Steps to set-up CST

Pairing CST with iWiscloud Smart Home Control Center:

1. Perform a factory reset of the IR device.
2. On the iWiscloud’s **control center**, at the **top right corner of the main** screen’s iWiscloud logo,
3. Click on the letter "W" in order to enter the **pairing** addressing, the **main screen will** display a pop-up box with the various rooms. This screen shows whether the pairing is successful or not.
4. After successfully addressing, click "OK" to exit; then click the letter "d" of the iWiscloud’s logo, it then checks to confirm an Infrared / Multi-frequency Control Signal Transmitter hosted a successful connection, then click "OK" to exit.

Note:

5. If the connection is not successful then repeat the first three steps, check again. Continue to click on the “W” once again.
6. When the connection is successful, you may confirm whether both connections are matched. There is no need to click on the "W", because the room corresponding to the Infrared / Multi-frequency Control Signal Transmitter has been **paired** successfully. Confirm the connection by simply clicking on the "d" once again to check.

Pairing CST with the Wisbox Mini

1. Log in to the WisBox Mini website and click the desired room where you would like to locate the IR repeater. Click on Add device to add an “IR repeater” and click save.
2. Click the new IR repeater icon and click on “searching address” button to pair the IR repeater to the Wisbox Mini.
3. Click on “checking” button to test if the pairing is successful. If successful, the Wisbox Mini should give a beep.

Pairing CST with home remote controllers

(Please refer to iWiscloud Smart Home Center/Wisbox Mini operation manual for detailed steps)

1. Identify the remote controller frequency that the electronic device to be pair is working on. For example, TV or audio set controllers are usually Infrared, Security devices such as door magnet or door bells are on 315Mhz and motorized windows or curtains are on 433Mhz. Ensure the electronic device is powered on.
2. Activate one of the required "Infrared / 315MHz / 433MHz / Security device" pairing mode on iWiscloud Smart Home Center/Wisbox Mini
3. Assuming electronic device is already present on iWiscloud Smart Home Centre/Wisbox Mini, please select the electronic device to be paired. The generic control options should appear.
4. Select one of the remote control commands to be paired. The iWiscloud Smart Home Centre/Wisbox Mini would start beep continuous (for 10 seconds) to signify it is in “learning mode”. You should issue the command on existing remote controller towards the CST. If the learning was successful, the iWiscloud Smart Home Centre/Wisbox Mini would give off a long beep (1 seconds long). Otherwise, it would continuous beeping till the 10 seconds period is over. Please retry this step if the learning was unsuccessful.
5. Repeat step 4 for all the remote control commands to be paired.
6. Assuming the learning was successful, please attempt to execute the “learned” command after deactivating "Infrared / 315MHz / 433MHz / Security device" pairing mode. Repeat step 4 if results not as expected.

NOTE:

- For air-condition remote control performed by CST, by default, the “powered on” command is always accompanied with “temperature setting” command. Hence, it is recommended to for users to pair the “up/down temperature” commands accordingly to ensure the desired temperature is set.

Product checklist

Items	Quantity
iWiscloud® Infrared / Multi-frequencies Control Signal Transmitter	1
Operating Manual	1
Jumper Caps	5
Fastening Screws	3
Warranty Card	1
Product QC Certificate	1

Warranty coverage

Wiscloud Singapore PTE LTD provides the following International warranty coverage for iWiscloud Infrared / Multi-frequency Control Signal Transmitter:

Warranty Period	18 months
Scope of Warranty	Electronic parts & sensory module
Warranty Service	Carry in - one to one product exchange

- iWiscloud Infrared / Multi-frequency Control Signal Transmitter is warranted for the specified Warranty Period from the date of original retail purchase (proof of receipt required) against defects in quality and materials under normal, non-commercial use. Abnormal usage caused damage is not warranty covered. Wear and tear damage is also not warranty covered.
- Abnormal usage includes (force majeure), but limited to, deliberate damaging, disassembling, dismantle, manipulating warranty sticker, power overloading, water damaging or other man-made caused product damages.
- Wear and tear damage includes, but not limited to, exterior surface defects due to natural environmental cause and mishandling.
- This warranty does not cover missing accessories or external parts of the product. Such claim should be made within 3 days from the date of original retail purchase with the supplying agent.

- For the avoidance of doubt, minor imperfections within design specifications and that do not materially alter functionality of the product are not considered a defect under this warranty.

Contact Information

Wiscloud Technology PTE LTD (Singapore)

Address: 62 Ubi Road 1, Oxley Bizhub 2 #08-13, Singapore 408734

Website: <http://en.iwiscloud.com>

Email: support@iwiscloud.com

Wiscloud Singapore PTE LTD (Singapore) reserves its right in the terms and conditions interpretation found within this operational manual.

Customer Support

SG Customer Support: (065) 6969-0523

US Customer Support: (909) 228-0080

E-Mail: support@iwiscloud.com

Manufacturer Phone: (400) 618-0679

URL: en.iwiscloud.com

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.

Caution: 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.