

Remote Control User Manual



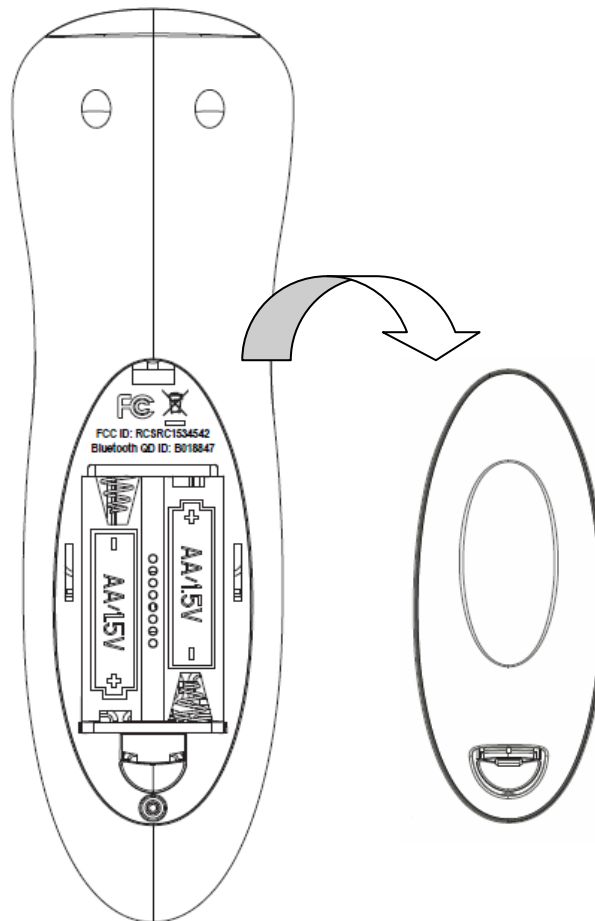
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1. Battery Installation

Battery installation



Open battery cover at bottom side of remote control. Insert 2 x AA batteries. Ensure batteries are properly installed. Install back the battery cover. The remote control is ready to be used.

2. Remote Features Overview

Remote control functions



Key	Functions
1	Power On/ Off - STB
2	Power On/ Off - TV
3	Live - go to Live TV mode
4	Guide
5	Digital Video Recorder
6	Input -select input sources on TV
7	Record
8	Play
9	Stop
10	Rewind
11	Fast Forward
12	Skip Backward
13	Pause
14	Skip Forward
15	Menu
16	Info
17	Up
18	Left
19	OK
20	Right
21	Down
22	Back
23	Last
24	Volume Up
25	Volume Down
26	VOICE Search
27	Channel Up
28	Channel Down
29	Mute
30	Exit
31	Telepresense - Video Conference
32	Zoom
33	Views-Switch views between icons and list
34	Numeric key 1
35	Numeric key 2
36	Numeric key 3
37	Numeric key 4
38	Numeric key 5
39	Numeric key 6
40	Numeric key 7
41	Numeric key 8
42	Numeric key 9
43	Delete
44	Numeric key 0
45	abc/123 -Toggle between numbers and alphabets

3. Database Function & Learn Function

3.1 The Database key table

The RC has Database for TV device. The keys supporting the Database are described as below. All the other keys will act the same as the remote control in STB mode.

Key Number	Key Name	TV
2	TV_POWER	YES
6	INPUT	YES
24	VOL+	YES
25	VOL-	YES
29	MUTE	YES

YES: This key is available in the current mode.

3.2 Set-up Mode

All Set-up mode features are meant to change the settings of the remote. Each feature is triggered by a special key-press. An overview of the Set-up features and the corresponding keypress is shown in the table below.

Set-up feature	Description	Initiating key-combination
Brand Search	Brand Search is the main way to program the remote to control the devices. Using the Universal IRDB. Inactivity timeout: 300s.	<<TV Power + OK>>
Auto-Search	Entering 9999 the remote can search for IR-codes in the full IRDB. Inactivity timeout: 300s.	<<TV Power + OK>>
Manual codeset entry setup	Allows direct entry of a Codeset-id to program the remote. This is meant mainly for support.	<<1+3>>

Set-up feature	Description	Initiating key-combination
	Inactivity timeout: 300s.	
Key Fix	Allows the user to fix keys that still don't work after a Brand-search. Inactivity timeout: 300s.	One: <<TV Power + OK>> Two: <<1+4>>
Learn	Learn other remote keys Inactivity timeout: 30s	<<1+5>>, <learnable key>, <OK>

Notation: <> normal key press,
 << >> press this key or these keys for 3 seconds.

3.3 General

When the user starts a Setup-feature, the LED of corresponding device turns on to indicate this.

- a) In setup mode, in order to indicate a *valid key press sequence*, the LED will do a Confirmation blink.

If the remote stays in Setup-mode the LED turns on again. If the remote returns to use-mode, the LED turns off.

- b) In case of an *Invalid key press sequence*, the device LED will do an Error blink.

If the remote stays in Setup-mode the LED turns on again. If the remote returns to use-mode, the LED turns off.

- c) When RC returns to use-mode from Setup-mode, all device LEDs are turned off, optionally by a confirmation or error blink sequence.
- d) In set-up mode, after each key press, the user has some time to press the next key. This is the inactivity timeout period. For some set-up features this timeout can be different. If no key is pressed within a timeout period the LED displays an error blink and turns off. The RC goes to use-mode.



3.4 Set Features for Learn

The RC also supports learn function for TV_POWER, INPUT, VOL+, VOL- and MUTE keys in TV mode.

Feature	Key sequence
Learn	<<1+5>>, <learnable key>, <OK>

Learnable key: TV_POWER, INPUT, VOL+, VOL- and MUTE.

The procedure is as following.

1. Press the TV Power key to switch the RC to TV mode.
2. Press Digit 1 and Digit 5 simultaneously for 3 seconds. During the initial 3 seconds, the LEDs will remain off. After 3 seconds the LED will give a confirmation blink and then keeps on. Release the Digit 1 and Digit 5 at the same time after 3 seconds.
3. Press a learnable key, the LED will turn off when the learnable key is pressed. And then release the learnable key, the LED will turn on.
4. Hold the source remote (in of sight) at an optimum distance (3cm to 6cm) and continuously transmit the signal by pressing the key from source remote that you want to learn into the RC.
5. The LED gives 2 reverse blinks if learning is successful and the new learnt codes will replace the previous one. The LED will still be on to wait for the next learning key.

The LED will give 4 reverse blinks if the learning is failed, go back to step 3 to learn this key again. The previous key code is kept.
6. User can learn other keys by following step 3 to 5.
7. Press the OK key to confirm the learnt codes and exit to the use-mode. After pressing the OK key, the LED will give a confirmation blink.

Notes:

If no key is pressed within 30s after enter into the learn setup mode, the RC will return to use-mode with an error blink to indicate time out.
If no signal for the RC to learn within 30s after pressing a learnable key, the RC will return to use-mode with an error blink to indicate time out.
If the learnable key has been pressed for 30s, the RC will enter into Stuck Key Time-out.

4. Bluetooth functions

4.1 STB Bluetooth Pairing

BT Pairing of remote with Mediabox will take place in following 3 situations:

- when remote and Mediabox are out of the box and install for the 1st time
- when existing remote is lost or broken and a new replacement remote is added
- when Mediabox is being replaced or reset, and added to work with existing remote

BT pairing under above situation will only happen when both remote and Mediabox are within 2m proximity

The remote control interacts with Mediabox UI via IR, or BT.

By factory default or after a master reset, the remote control does not contain any BT pairing information. The Remote will default to be in STB Mode. The Remote will send STB IR Code.

In BT mode, the STB Power key will start to use RF until the BT link is “virtual cable unplug” (either due to Mediabox out of range or Mediabox is off or Mediabox is being replaced). BT pairing is described in more detail at section BT Pairing.

Each remote control should pair with 1 Mediabox (although technically can pair with up to 4 boxes). When trying to pair a previously paired remote to a Mediabox, the previously paired information will be replaced on both the Mediabox and Remote control.

Before pairing, the STB Power key will only send IR code. After Pairing the STB power key will send both IR and BT.

4.2 BT Pairing (Out-of-the-box / Replacement Remote)

When the batteries are inserted for the first time, the RC is not paired to any Mediabox. To start pairing, the following procedure applies.

- 1) If any key is pressed in STB mode (except <Voice>, <TV Power> and <Input>), the STB IR codes will be sent. When there are no key presses for more than 1sec, the Remote will start the Pairing Process.
- 2) The remote starts the pairing process by sending an IR Pairing Code to the MediaBox according to IR Format in Section 4.12.1

- 3) If the key press is the STB Power key, the Remote will send the STB Power key IR code. When the STB Power key is released, the Remote will then send the IR Pairing code.
- 4) When the BD Address is verified, the Mediabox will start the pairing process.
- 5) If the pairing fails, the Remote will go to sleep mode.
- 6) If the pairing is ok, the STB will then send a DeviceID (using RF) to the RC. The RC can now control this MediaBox only.
- 7) Subsequently, when the STB Power key is pressed, the IR code will contain the Device ID and Command Code information (See 4.12.3 STB RC6 Code Format).
- 8) The remote control pairing will timeout after 3mins. After 3 mins, the RC will go to sleep mode. The RC will remain in an “unpaired” state.

4.3 BT Pairing (Replacement of Mediabox / BT Link failed to reconnect)

1. The RC needs to be setup again in order to work with a new Mediabox, or a previous BT link is “virtual cable unplugged”.
2. The user will need to press “OK” and Digit “2” key simultaneously to start the pairing process manually as below.
3. The remote starts the pairing process by sending an IR Code to the MediaBox according to IR Format in Section 4.12.1
4. The Mediabox must check and confirm the data are correct with the Checksum.
5. When the BD Address is verified, the Mediabox will then start the pairing process.
6. If the pairing fails, the Remote will go to sleep mode.

7. If the pairing is ok, the STB will then send a DeviceID (using RF) to the RC. The RC can now control this MediaBox only.
8. Subsequently, when the STB Power Key is pressed, the IR code will contain the Device ID and IR Command Code information (See 4.12.2 STB IR Code Format).
9. The remote control pairing will timeout after 3mins. After 3min, the RC will go to sleep mode. The RC will remain in the “unpaired” state.

***Note :**

- After pairing, the STB keys will send BT only. Only the STB Power key will send IR and BT.
- In TV Mode, only the 5 TV keys (TV Power, Input, Mute, Vol+, Vol-) will send IR.

5. Voice functions

5.1 BT Wireless Audio Link

The remote control can capture audio (**mainly for human voice**) at 16bits, 16KHz sampling rate in uncompressed digital format and transmit over BT wireless audio link.

When VOICE button is pressed and hold, the microphone and the BT wireless audio link will be enabled, at the same time a BT Command will be sent to inform the Mediabox. This allows the user to speak phrases of commands to the microphone port of the remote control. Upon pressing of VOICE button, it may take up to 0.3 sec for the wireless audio link to be ready.



To use the voice feature :

1. Press and hold the “VOICE” Button.
2. The RC will send a BT command to the MediaBox.
3. Speak into the MIC near the top of the remote control.
4. Release the “VOICE” Button after speaking the message.
5. The RC will send a BT command to indicate the end of the voice message.
6. The RC remains in standby mode for 5secs before going to sleep mode.
7. Alternatively, a quick Tap on the Voice key (Quick press and release) will also enable the VOICE feature. To end the VOICE feature, do another quick Tap on the Voice key.

6. Factory Reset

Pressing the key “DEL” and “STB” together for 3 sec will erase the BT pairing information. The LED under STB Power key will blink twice to indicate successful reset.

Pressing the key “DEL” and “TV” together for 3 sec will erase all learn data, keyfix and Database codeset. The LED under TV Power key will blink twice to indicate successful reset.

7. Battery low power handling & indication

When the remote control is in use, and if the battery voltage level is at **low level**, and after each key press is released, both the STB & TV LEDs will blink to indicate battery low.

During battery low condition, all functions are usable, except following task will not be possible: learn other remote, pairing and soft reset

Users are required to replace new batteries as soon as possible.

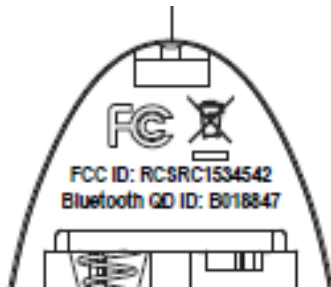


8. Certification information

WEEE LOGO

FCC

Bluetooth QD ID



Place of Origin: Made in Indonesia.

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

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 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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