

The cover features a light green background with a large white semi-circle on the right side. A thin green border is visible on the left and top edges. Green leaf motifs are placed in the top right and bottom corners. The text is centered in the upper half of the page.

RH60 Color Touch Screen
USER MANUAL

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01. HOME & BUTTONS

The following section provides an overview of the button layout. Simply touch the category you would like to explore.



The remote's functions are grouped by categories. From the home screen you can access every category. *Tip: To access home from any category, simply press "Home" on the bottom left hand side of the remote, or press the house icon on the top left hand side of the remote.*



This part of the remote has the most common features used such as power, channel up/down, enter, volume up/down and mute.

The following chart gives an overview of the Home icons:

| Icon Picture | Icon Name | Function |
|--------------|-----------|--|
| | Devices | Access TV, CABLE, DVD, DVR, VCR, SAT, AUDIO, CD and TAPE menus. This menu can have more pages (i.e. Devices ½). To see more pages use the scroll wheel. |
| | My Pick | My Pick allows a user to program macros and configure the remote to meet a his/her exact requirements; This category includes all the My Pick functions. |
| | Others | Here you can access GAME, MEMO, ALARM and BIORHYTHM. |
| | Setting | Here you can access: CONFIGURATION, MYPICK, BRAND SET, IR/RF, LEARN, LABEL, CALIBRATE, DEFAULT |

If you press Devices, My Pick, Others or Setting from the Home menu you will see:



Devices

My pick

Others

Setting

02. OPERATING Mode & BUTTONS

The color touch screen remote is very easy to use; this section will provide an overview of the buttons available.

Example 1

From the Home menu press



And you will see the screen above.

You can now press the icon of the device you wish to operate.




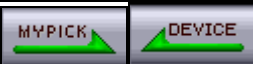



Example 2

From the Home menu press








And you will see the screen above.

You can now press the icon of the device you wish to operate.

| Icon Picture | Icon Name | Function |
|---|------------------------------|---|
|  | Home | Access to home screen or IR output Display. |
|  | Devices (Device Selected) | Device selected will be displayed. (i.e. TV) you will also see the following info: Device Name, Current page/Total page (i.e. 1/4) |
|  | My Pick (Device Selected) | MYPICK device selected will be displayed. (i.e. My AUDIO) you will also see the following info: Device Name, Current page/Total page (i.e. 1/6) |
|  | Mode Exchange | My Pick or Device Transfer |
|  | Device Link | Press a button in this menu and you will be able to link a device (by clicking the desired device) to the device mode button. The procedure is: 1.Press one of the four buttons in the menu 2. Select the device you want to link (i.e. My Audio) and press its button. You will now see a change in the device link menu to reflect the new device selected. |
|  | Device Mode | Once you have a device linked (max 4 using a unique button for each device), use one of these 4 buttons to quickly access that device. |
|  | Scroll-Wheel | Use the scroll-wheel to move to a previous page or next page while in operation mode. In addition, use the scroll-wheel to fill out numerical values. |

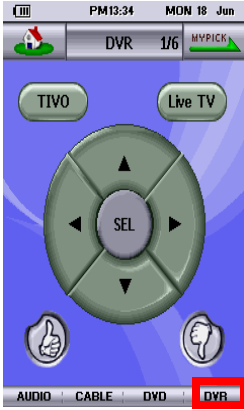
To access a device:

Ex 1). From the Home menu, Press  and then press  or press  button  under the device you wish to select. You can move to the next or previous page of the device using the scroll-wheel.

If you want to change a device that is linked, press the button of the device you wish to change  and select the new device you wish link.

Ex2) How to change a device that is linked; in this example we will change the link from DVR to SAT:


In this case we want to change DVR and our DVR screen looks like this:



1. To change a device that is linked, press the button of the device you wish to change (in this case we are changing DVR)

2. Next press the desired device (in this case SAT)



3. Note the change in the device link menu. You can now quickly access that device by pressing the  button



03. SETTING MODE & BUTTONS

From the Home menu press



Set-up: Date, time, contrast, backlight, LCD off time, RF ID code and Beep Sound on/off.



Device Brand set-up. Use this mode to set-up the remote (AUDIO,CABLE,DVD,DVR,TAPE,TV,SAT,VCR CD,AUX1,AUX2,AUX3,AUX4,AUX5)



IR Signal Learn (Learn a device using its remote)



Calibrate: Touch Pad location and Wheel sensitivity



My Pick set-up



IR/RF select



Label Edit (Edit Group Button name)



Restore the remote to its factory default settings. You will lose all saved devices!

04. CONFIGURATION MODE

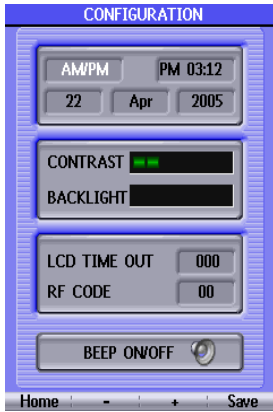
From the Home menu press




and then press




You will see this screen:



2. Select (press) what you would want to change. Use the wheel or  buttons to change values.

3. Save your changes by pressing 

4. Press  to return to the main menu.

05. BRAND SET MODE

The Color Touch Screen remote is a universal remote with a built-in database with support for many different devices. Use this mode to program a device.

1. From the Home menu press



and then press




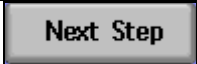




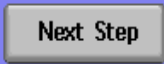


2. Select the type of device you would like to set-up. Note: AUX is designed to provide you with more devices to suit your personal need. If you press AUX, you will need to select a device you would like to set AUX to be.



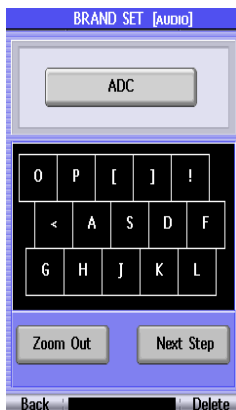
After you select a device, you will see the following screen.



| | |
|---|---|
|  | Displays current mode and type of selected device. |
|  | Displays the current brand name. (Including the Next step button Function) |
|  | This Key Pad is used to type the brand of the device being programmed. |
|  | Returns you back to an un-zoomed keyboard use it if you selected the wrong part of the keyboard |
|  | If the brand name is correct, press next to go to the next step. |
|  | Return to the device selection screen. |
|  | Displays characters being typed. |
|  | Use to delete a typed letter |
|  | You can move through the list of supported brands using the scroll-wheel. Use this method if you do not wish to type. |

3. Input the brand using the keypad or use the scroll-wheel to browse through the available brands. In this example, we will type the brand of our TV (Samsung).

If you touch the section where the S is located, you will see the keyboard zoom in.

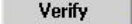


As you type letters the remote will select the next available brand. In this case if we type “SAMS”, SAMSUNG is displayed. Brands appear in the alphabetical order of the brands that are supported (i.e. typing “SO” will display SONY). You can also use the scroll-wheel to browse through the available brands.

4. If the brand selected is correct, press  and you will see the following screen displaying the brand you selected.




5. Turn on the device you would like the remote to control, next press the button of the device (Samsung) until your device turns off.

6. Now press the verify button  to verify the code works correctly. Because some manufactures have multiple codes for their products, it is possible a code will power on the device but not perform any other commands. This is why we must verify the code.

7. Check different remote keys on all the available pages (use scroll-wheel to navigate pages) when you are satisfied with the test, press the BACK button and then press SAVE button. You will now return to the Pre-Program screen (you can continue setting-up more devices) if you wish to finish setting-up devices, press HOME.

06. LABEL EDIT MODE

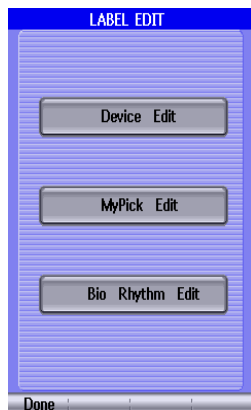
It is possible to edit the labels of your devices.

1. From the Home menu press  and then press .

2. If you press Group Label Edit, you will be able to edit the groups under My Pick, Devices or Bio Rhythm. Next you will have to go through a 4 screen process making your desired selections. Remember you can change groups under DEVICE, MY PICK or BIO RHYTHM. You will see the following screens below:



Screen 1



Screen 2



Screen 3



Screen 4

3. Once you select your desired selection under screen 2, you will select the group you wish to edit and edit its characters using the keyboard. For more information on the keyboard see pg 11.

Note: The process for Device Button label Edit and My Pick Buttons Label Edit is the same as the one described above.

Keyboard Layout; when using the keyboard, you will see the following screen below.



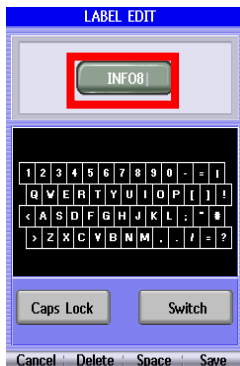
| | |
|--|---|
| | Displays current operation. |
| | Displays the selected Icon being changed. |
| | Keyboard used to input characters. |
| | Used to zoom out from the group of letters selected. |
| | Same function as the scroll-wheel. Used to switch letters on the pad. |
| | Used to turn on/off capital letters. |
| | Cancel the Label Edit operation. |
| | Delete the last character typed. |
| | Create a space between characters. |
| | Save typed changes. |



You must zoom into a section of letters before being able to type any characters. When you select any character, its corresponding section will zoom in and you will be able to select the desired character. In this example, we want to add the number 8 after “INFO”. The screen d

1. Touch around the character you wish to select (e.g. 8) and the keyboard will zoom-in. Next select the desired character and the keyboard will zoom-out.

Zoom-in screen





2. The keyboard will zoom out. Note there is now an 8 after “INFO” now we press SAVE to save our changes.

07. MYPICK SETTING MODE

With MY PICK, you can program macros and/or personalize your remote.

- From the Home menu press  and then press 

In this example we will set-up a macro with Audio.

- Press the My Audio  button. And you will see the following screen below:
- Press any button to begin set-up (in this example we will use the  button)



<Screen1>

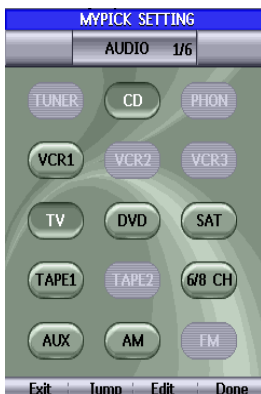
<Screen2>

<Screen3>

<Screen4>

- Press buttons to input (i.e. press  and then press  per screen 2)

Note: the buttons will look like they are pressed (just like in the picture screen2)
 Grayed out buttons will not work because the particular device hasn't been set-up yet.




You may press Exit, Jump, Edit or Done during this process. Please refer to the chart below for a description of what each button does.

- Exit Move to the previous mode<Screen1>.
- Jump Jump a screen setting.
- Edit Move the buttons to <Screen4>.
- Done Save, Label Edit and Move to <Screen1>.

Ex) press more buttons (i.e. for TV press 1, 2, 3 per screen 3)

5.Screen 4 is
 The last screen
 displayed.

- Press  to save and exit to label edit mode.

| | |
|--------|---|
| Cancel | Cancel settings and move to the previous mode without saving. |
| View | View the allotted buttons. |
| Delete | Delete the allotted buttons. |
| Done | Save and move to the previous mode <Screen3>. |

08. LEARNING MODE

1. From the Home menu press



and then press



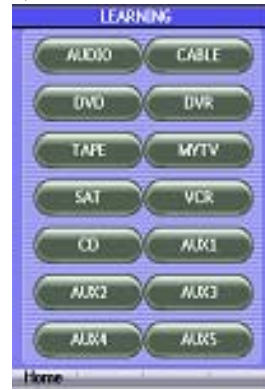
2. Choose your desired selection (buttons or devices Screen1).



<Screen1>




<Screen2- Button Learn>




<Screen3- Devices Learn>

3. Use the wheel & device Select button() to navigate to the page of the device you want to change.

Next press the button you want the RH60 to learn. Finally, press the button on the original remote and the RH60 will learn that button. Repeat the step 2-3 for the rest of the buttons you want to program manually. Note: .The unit will wait 5 seconds for a signal to be transmitted from the original remote. If no signal is transmitted during those 5 seconds, the unit will automatically turn off and beep a sound indication the button was not programmed and the RH60 has returned to its original state.

ex) If you press the  button in <Screen2> Next, press the (5) button on the original Remote Control.

4. Press the  button to finish and exit learning mode.

09. IR/RF SELECT MODE

1. From the Home menu press



and then press



IR Output Selected

RF Output Selected

2. Select the device you wish to change and press that button. Each time you press the button, the icon will change from an antenna (RF) to a signal (IR).

3. Press **Save** when you are finished.

<Screen1>

10. CALIBRATION MODE

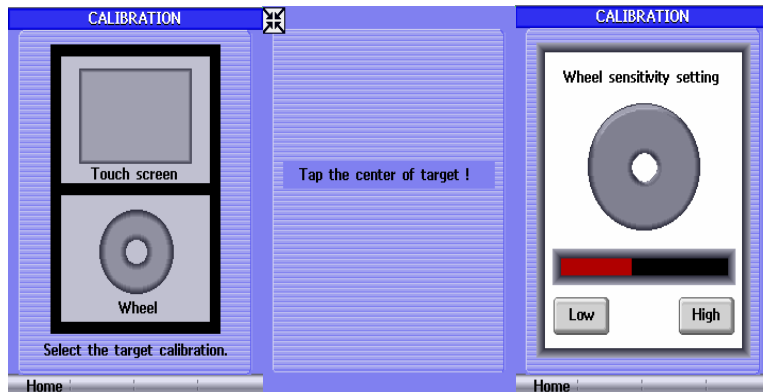
1. From the Home menu press



and then press



2. You will see <Screen1>, choose between the Touch pad or Wheel.



<Screen1>

<Screen2 – Touch Screen>

<Screen3 - Wheel>

3.1 If the touch pad is selected <Screen2>, touch the area(s) instructed.

3.2 If the Wheel is selected, select the sensitivity you desire (Low makes the wheel less sensitive, High makes the wheel more sensitive). Note: You can test the sensitivity in this mode by turning the wheel.

11. BIORHYTHM

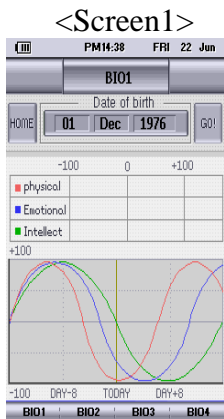
1. From the Home menu press



and then press BIORHYTHM.



2. Select the desired BIO from the available selections shown in screen 1 and you will see its status (screen 2)










3. Input your birth date and touch **GO!** (please refer to the biorhythm icon chart for more information)

4. Press **HOME** to end the BIORHTHM function.

<Screen2>

Biorhythm Chart

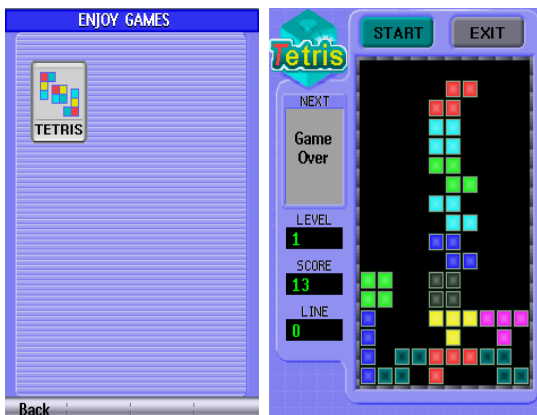
| Icon | Icon name | Function |
|--|---------------------|--|
|  | BIORHYTHM Link | Operated the same way as previously shown. |
|  | BIORHYTHM Selectors | |
|  | BIORHYTHM Change | |
|  | HOME | Move to HOME screen |
|  | GO | Used only when the date of birth is changed. Pressing GO will auto-save the new DOB data selected and a new BIORHTHM graphic will display. |
|  | Date of birth | Touch to change current D.O.B data. |
|  | Wheel | Use the wheel to change D.O.B. |

12. GAME

1. From the Home menu press



and then press GAME.



UP: Rotate
 Down: Drop
 Left: Move left
 Right: Move right

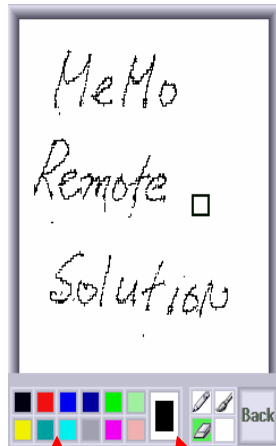
* Can not exit game before game is over.
 Restart function will not work.

13. MEMO

1. From the Home menu press



and then press MEMO.



- =Pen
- =Brush
- =Eraser
- =Exit :



Note: When the Save & Exit Button appears, select Save and it will save the memo and exit

Pen Color

Selected Color

14. ALARM

1. From the Home menu press



and then press ALARM.

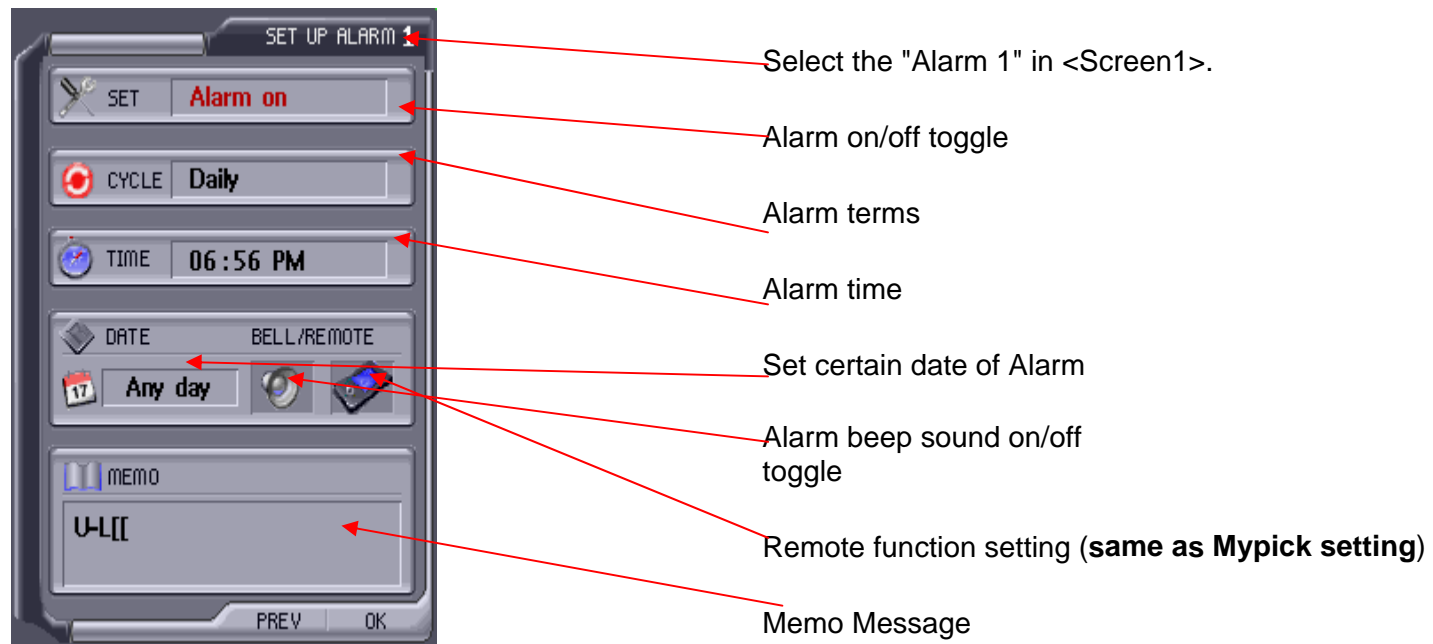


Alarm 1 shows 6:54PM /Alarm Sound On/Remote Function On/ Memo On.

Alarm 3 shows no functions are on.

<Screen1>

2. Choose function to select in <Screen1>.



<Screen2>



Touch "memo" in <Screen2>. <Message input> will be displayed. Input message and Press the **Done** button to end input message.

<Message Input>

15. DEFAULT MODE

From the Home menu press  and then press DEFAULT.



- BRAND SET- Delete Brand setting.
- MYPICK- Delete Mypick setting.
- LEARN- Delete Learning date.
- ALL CLEAR- Delete everything; BRAND SET, MYPICK, LEARN.
- CLONE – Reproduce the setting of source remote to another unit.



2. If you selected Brand Set, MY Pick or Learn, you will see this screen. Select the devices you wish to delete. Note a checkmark means you want to delete the device.

3. Press the save button.



If you select ALL Clear you will see this screen.

Press ALL CLEAR to delete ALL YOUR DEVICES

Press CANCEL if you DO NOT wish to delete all your devices.



CLONE

This function allows to reproduce the Source Remote to the Target Remote.

Source Remote : The unit has the Setting value transmitted to the Target remote.

Target Remote : The unit receives the Setting value of the Source Remote.

16. USB MODE

1. Remote Control and PC Connection

Connect the Remote Control to your PC using the supplied USB Cable.

The unit will connect automatically, if the 5X Manage program is operating on your PC.

<Screen1> will be displayed.



2. Disconnection

The remote will return to the previous screen of the Connection, if the cable is disconnected or the PC Program is closed. In addition, the remote will restart if a Firmware Update has been performed.

17. CRADLE MODE

When the remote is connected to the cradle:

1. The clock or Calendar will be displayed if the Remote Control is on the cradle.

2. No function will be available in this mode; only the Sub Remote Control will work.

3. The procedure of using vid1, vid2, vid3, vid4 with the Sub Remote Control is the same as using Device link with the RH60.

If both Remote Controls are linked successfully, they will be connected as shown:



| | |
|--------------------|-----------------------|
| Charging | Red color |
| Charging completed | Green color |
| Power On | Orange blink (3-time) |

| | AUDIO | CABLE | DVD | DVR |
|------|-------|-------|-----|-----|
| VID1 | AUDIO | | | |
| VID2 | CABLE | | | |
| VID3 | DVD | | | |
| VID4 | DVR | | | |

18. General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION
READ THIS INFORMATION BEFORE USING RH60

<<NOTICE>>

* **Section 15.19 Labelling requirements**

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.

* **Section 15.21 Information to user**

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

- * **IMPORTANT NOTE:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

19. SubRemote (Optional)

The SubRemote is used when the Main Remote is being recharged
 SubRemote is available when the Main Remote is plugged into the Cradle, and the Main Remote must be selected to RF mode



Buttons that are used to choose devices

The procedure of using vid1,vid2,vid3,vid4 with the Sub Remote Control is the same as using Device link with the RH60.

ex)

Main Remote(RH60) Device link part



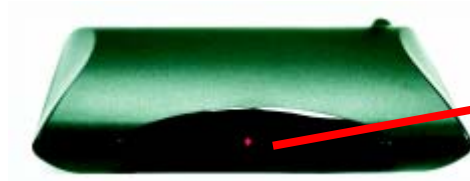
SubRemote Device Link

| | |
|------|-------|
| VID1 | AUDIO |
| VID2 | CABLE |
| VID3 | DVD |
| VID4 | DVR |

20. RF Receiver & IR Converter (Optional)

Adaptor Spec : DC 9V , 400mA

Receives and changes a RF signal from the Main Remote or SubRemote to an IR signal



IR Signal Indicator. LED

When it is first turned on IR Signal Indicator LED will blink 4 times

If it does not blink 4 times, contact your distributor.

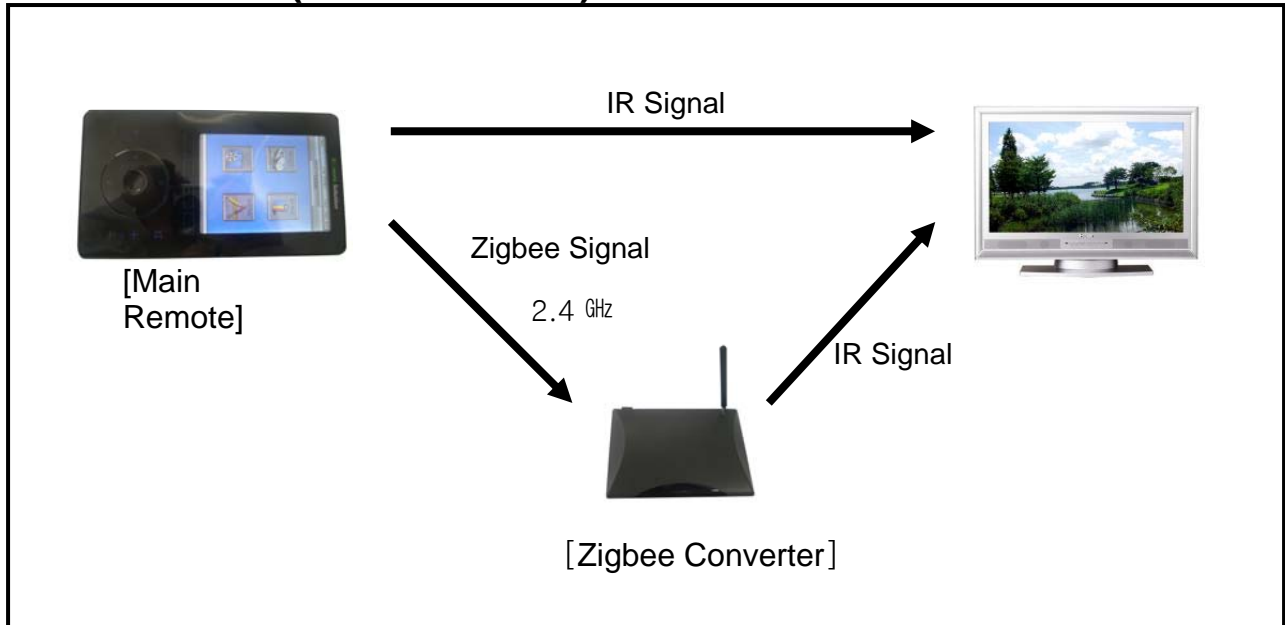
When the RF ID correctly corresponds with the RF Code, the IR Signal Indicator LED will turn on and the IR code will be transmitted.

* The back (side) Rotary Switch

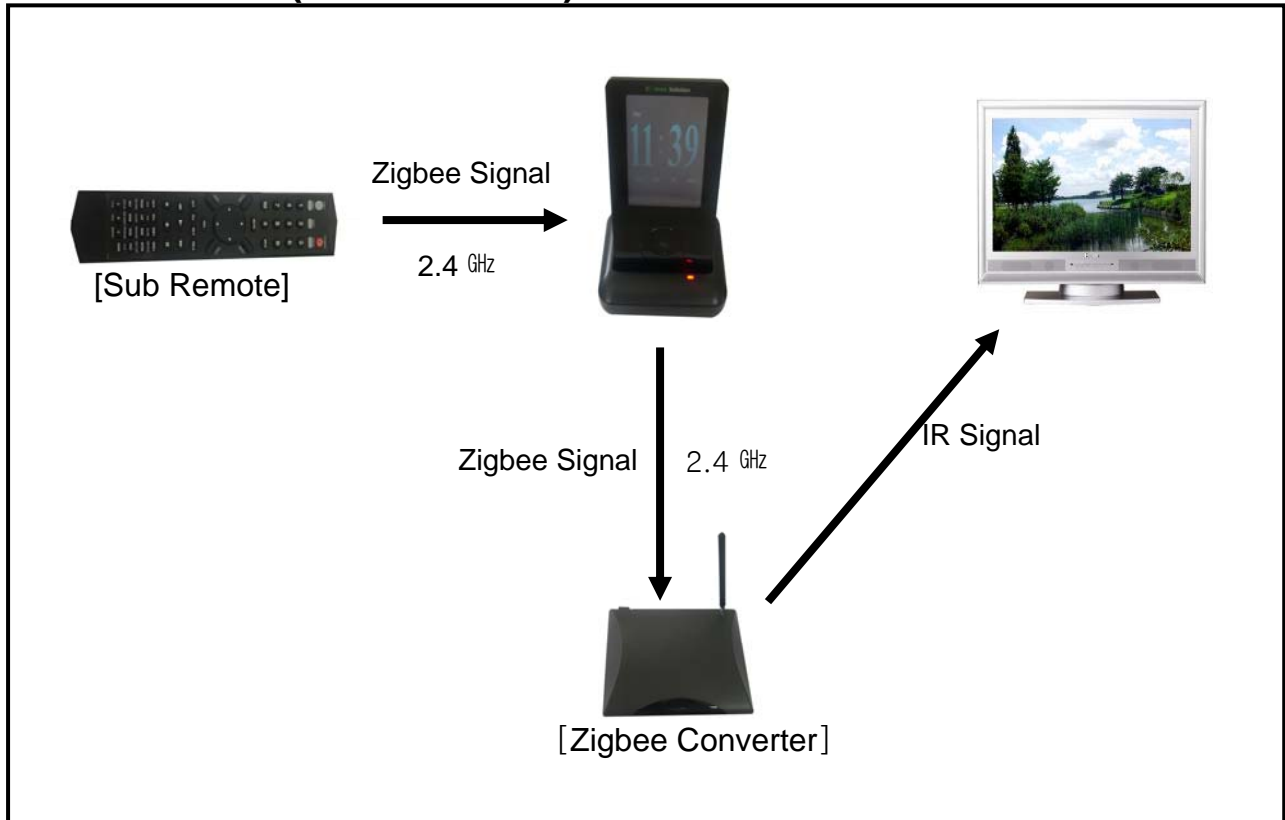


- RF ID Change

How To Use? (Main Remote)



How To Use? (Sub Remote)



Main Remote Specification

| Item | | |
|--------------------|----------------------------|--|
| SoC | Processor type | 256 QFP |
| | Processor | Hynix HMS30C7202 Processor 80MHz |
| | CPU Core | ARM720T |
| | Memory controller | 16&32 bit modes, |
| | LCD Controller | Mono/Color STN , TFT LCD |
| | USB Controller | USB (Slave) 1.1 |
| Memory | Flash memory | 64Mb x 16bit or 128Mb x 16bit |
| | SDRAM | 64Mb x 16bit |
| | SRAM | 8Mb x 16bit [JTAG Debug] |
| External keys | Touch panel | Touch panel controller ADS7843 |
| | Touch key | Touch sensor controller QT1080 |
| | Touch wheel | Touch slider controller QT510 |
| Backlight | LCD | CCFL Controller MP1025 |
| | Key | EL. Controller ZSP4403 |
| Signal Transmitted | IR | Infrared |
| | Zigbee (RF) | 2.4GHz [IEEE [®] 802.15.4 Standard] |
| PC Interface | USB Device | USB 1.1 H/S |
| Battery | Rechargeable Li-Polymer | 3.7V / 1600mA |
| LCD | Color LCD | 3.9" STN Color LCD(320 x 240) |
| Operating current | RUN | MAX 500mA @ 3.7V |
| | IDLE | TYP. 300mA @ 3.7V |
| | SLEEP | MAX. 5mA @ 3.7V |
| Operating voltage | | 3.0V ~ 6.0V |
| Operating Distance | IR | MIN. 10m |
| | ZIGBEE(RF) | MIN. 20m |

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R & D Center