User's Manual

R@mote Solution

Comfortable use with touch screen



General Information

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

NOTICE

I 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.

I Section 15.21 Information to user.

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

I 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.

Note:

The 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 instruction, may cause harmful interference to radio communication.

However, there is no grantee that interference will not occur in a particular installation. If this equipment dose 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.

The user should not modify or change this equipment without written approval from Remote Solution Co., Ltd.

Modification could void authority to use this equipment.



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Chapter 1 | Preparing to Use the Product



Product Features

I Product Features

1	Touch screen that facilitates usage convenience
2	Wheel mechanism that allows for easy page navigation
3	Simple user interface that promotes intuitive use
4	Low power consumption that extends battery life
5	Distinctive design including a 3.9-inch color LCD
6	RF function that enables multi-room control

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Safety Precautions

The following information is included to promote user safety and prevent any possible injury or property damage. Please read the directions carefully and use the product correctly..

I About the Power Supply

Only charge using the power supply provided.

An incorrect power supply can cause damage to the product.



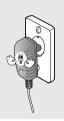
Do NOT touch the power plug with wet hands.

This can result in electric shock.



Make sure the plug fits tightly into the outlet.

Loose plugs can cause electric shock.



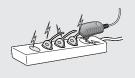
Do not fold the power cable or place anything heavy on it.

This can result in electric shock.



Do Not use too many plugs in a single power outlet.

This can result in electric shock.



Unplug the power plug during electrical storms.

Lightning can cause an electric shock.



Safety Precautions

I About the Product

Do not use the product in high temperatures or high humidity.

This can cause damage to the product.



Do not disassemble the product.

This can result in damage to the product.



Do not place heavy objects on the product.

This can cause breakdown or damage to the product.



Clean the product with a soft, dry cloth. Do NOT use any flammable cleaners or chemicals.

This can cause damage to the surface of the product.



Do not allow foreign objects or liquid to get inside the product.

This can result in damage to the product.



Do not allow children to play with the remote.

If the product is dropped, this can cause damage or injury.





Components

Components may be replaced without any prior notice in the interest of improving product quality or performance. The components shown here in the manual may differ from the components included

I Standard







Main Unit

Cradle

Adapter







USB Cable

Product Manual

SETUP CD

I Optional









Sub-Remote Control

RF Receiver

Adapter

6-CH IR Flashers

Chapter 1 | Preparing to Use the Product



Parts Diagram

The diagram may differ with the purchased product.

I Remote



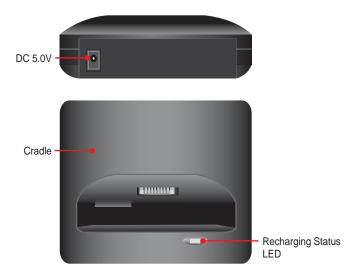
R@mote Solution | 4 5 | R@mote Solution



Parts Diagram

The diagram may differ with the purchased product.

I Cradle



Note

- The LED glows red when charging is needed. After fully charged, the lamp turns green.
- Recharging time can vary.
- When the device is first connected to a power source, the LED flashes orange.

Chapter 1 | Preparing to Use the Product

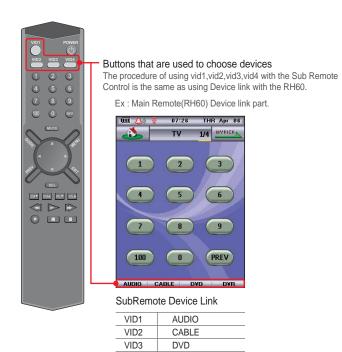


Parts Diagram

The diagram may differ with the purchased product.

I 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



VID4

DVR



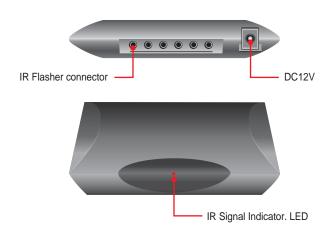
Parts Diagram

The diagram may differ with the purchased product.

I RF Receiver & IR Converter (Optional)

Adaptor Spec : DC 12V, 300mA

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



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

Chapter 1 | Preparing to Use the Product



Battery Removal and Insertion

I Battery Removal

Open the battery cover by pushing in the direction of the arrow.



I Battery Insertion

Connect 1 and secure the cover to 2 and then close it.

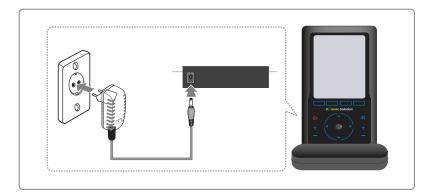




Recharging and Turning Power On/Off

I Recharging with an Adapter

Insert the adapter cable into the cradle and then plug the other end into a power outlet.



I Turning the Remote Control Power On/Off

The icon is NOT related to the remote control power function.

Open the cover at the rear of the remote control and unplug the wire to turn off the remote control power.

As the wire can be severed, be careful when unplugging.

Note

In case that overvoltage, over 6V, impacts the remote control unit, the product does not work by the operation of the protective circuit. In order to resume the remote control unit's operation, remove the battery and then reinsert it to the unit.



Chapter 1 | Preparing to Use the Product



Product Specifications

Product specifications can be changed without any prior notice to improve product performance and quality.

I Product Specifications

Item		
SoC	Processor Type	259 QFP
	Processor	Hynix HMS30C7202 Processor 80MHz
	CPU Core	ARM 720T
	Memory Controller	16&32 bit modes,
	LCD Controller	Mono/Color STN, TFT LCD
	USB Controller	USB (Slave) 1.1
Memory	Flash Memory	64Mb x 16 bit or 128Mb x 16 bit
	SDRAM	64Mb x 16 bit
	SRAM	8Mb x 16 bit [JTAG Debug]
External keys	Touch Panel	Touch panel controller ADS7843
	Touch Key	Touch sensor controller QT1080
	Touch Wheel	Touch slider controller MP1025
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	3.7V/ 1600mA
	Li-Polymer	
LCD	Color LCD	3.9" STN Color LCD (320x240)
Operating Current	RUN	MAX 500 mA @3.7V
	IDLE	TYP. 300 mA @3.7V
	SLEEP	MAX. 8mA @3.7V
Operating Voltage		3.0V ~ 6.0V
Operating Distance	IR	MIN. 10m
	ZIGBEE (RF)	MIN. 20m



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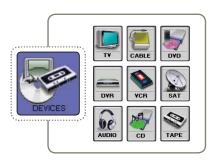
R**⊘mote** Solution

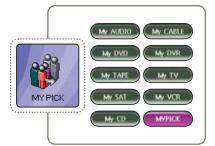


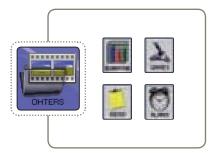
Menu Structure

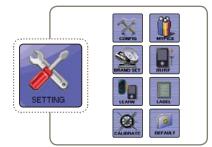
I Menu Structure

The following shows menu buttons that are displayed on the LCD screen. Please refer to each function in the details shown below.







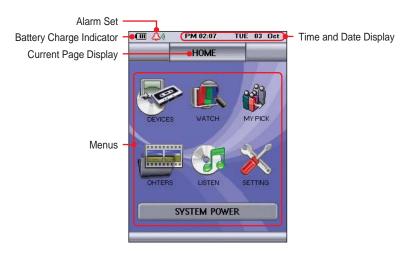


Chapter 2 | Learning to Use the Menus



Display Structure

I HOME - Screen



■ The following <HOME> icons are explained below.

: move to the device group that the user wishes to control.

: Watch is jump to Watching group.

: move to the My Pick group.

: move to the other functions menu.

: LISTEN is jump to listening group.

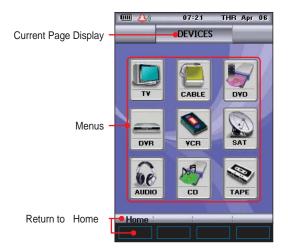
: move to the system settings menu.

: System Power is power control on all devices.



Display Structure

I DEVICES - Screen ()



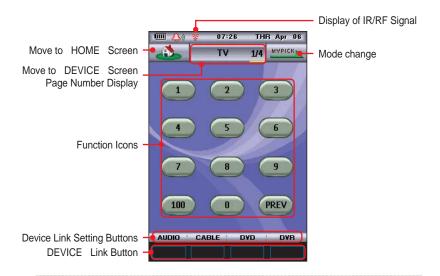
- The <DEVICES> menu is explained below.
 - Menus: user selects and moves to the page of the desired device.
 - Home: return to the home screen by pressing the Home button or clicking on the box below the Home button.

Chapter 2 | Learning to Use the Menus



Display Structure

I DEVICES - TV Screen (■)



- The following < Device > TV icons are explained as follows.
 - TV 1/4: moves to the device screen and displays the current mode.
 - MYPICK : moves to MY PICK .
 - : moves to DEVICES .
 - The function icons : are used to operate the device functions.
 - Device link setting buttons: buttons to set device links (refer to page 20).
 - Device link buttons: moves to pages preset in device link set.



<DEVICES> Mode

TV , CABLE , DVD , DVR , VCR , SAT , AUDIO , CD , TAPE HOME \blacktriangleright Use the same method to move to the DEVICES menu.

I DEVCIES - Using the TV Remote Control





Press on DEVICES screen.

Displays the DEVICES TV screen.



Press the function icons on the TV screen to turn the channels.

Use the wheel to move to another page.





4 Press to exit this mode.

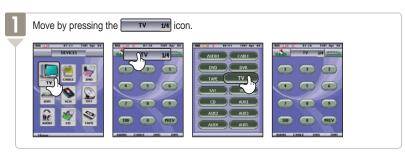
Displays HOME screen. (Refer to 33~35 page to set the brand.)

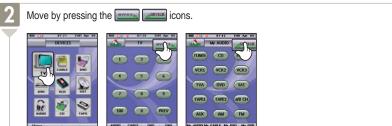


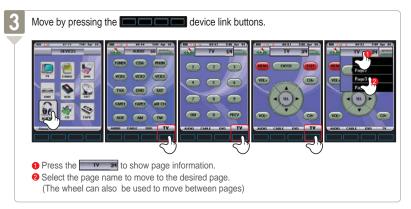
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I Different Methods to Move to Another Page







<DEVICES> Mode

I DEVICES - Changing a Link











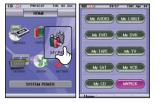
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<MY PICK> Mode

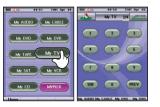
I MY PICK - Navigation





Press My TV.

Displays the My TV screen.



The My Pick Macro begins operation when the operation button on the My TV screen is pressed.

Refer to page 30~31 for My Pick settings.





4 Press the button to end.

Displays the Home screen.



<OTHERS> Mode

Chapter 2 | Learning to Use the Menus

 OTHERS> Mode

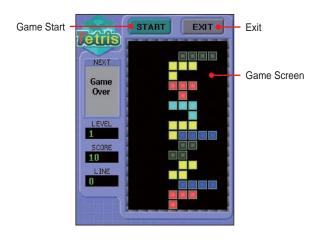
I BIO RHYTHM - Screen (■►■)

THR Apr 06 09:02 Move to the Bio BIO1 Rhythm Screen Date of birth Move to the 02 Jan 2004 GO - Go button after DOB Entertainment Screen Year/Month/Date Display physical -90% ■ Emotional +58% ■ Intellect -22% +100 Bio Rhythm Link BIO1 BIO2 BIO3 BIO4

- The <BIO RHYTHM> icons are explained as follows.
- BIO1 : moves to the Bio Rhythm Screen.
- BACK : Moves to the Entertainment Screen.
- Date of birth : Touch the DOB screen to change the background color.

 The date of birth can then be modified using the wheel.
- 🔞 : Press to save modifications and display new bio rhythm information.

I GAMES - Screen (■►)

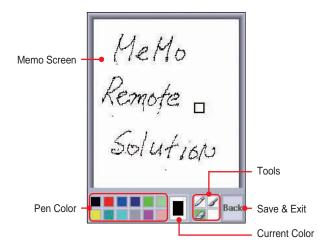


- The <GAMES> icons are explained as follows.
- Use [▲▼ ◀► on the wheel.
- UP (▲): rotate/turn
- Down (▼): send to bottom
- Left (◀) : move left
- Right (►): move right
- * The start function is inoperable once the game has started.



<OTHERS> Mode

I MEMO - Screen (■) []

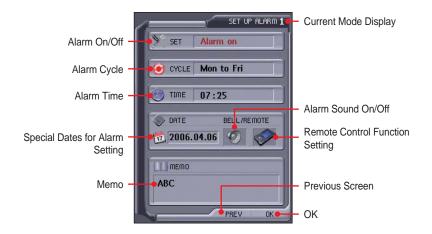




Chapter 2 | Learning to Use the Menus



I ALARM - Screen (■●2)



■ The <ALARM> icons are explained as follows.

Remote Control Function Setting:

The My Pick setting function controls both this alarm function as well as those of other devices. The setting method is identical to that of the My Pick function (refer to page 30~31).

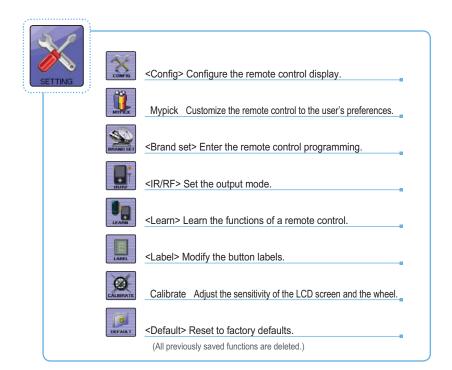


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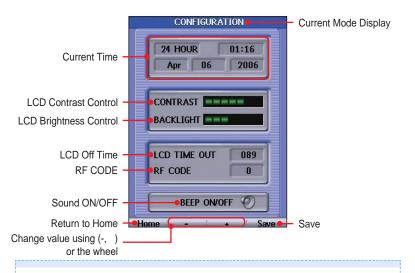
I SETTING - Menu Descriptions



Chapter 3 | Configuring the Settings



I CONFIG - Screen (■►■)



 $\quad\blacksquare\quad$ The <CONFIGURATION> icons are explained as follows.

To change any value, select the menu to change and adjust the value using the $\ /\$ buttons or rotating the wheel.

<SE∏ING> Mode



I MYPICK

Customize the remote control to the user's preferences.

Press on the <REMOTE SETTING> Screen.

Displays the [My Pick Setting] Screen.



Press (My AUDIO)

Select a button for macro installation. Ex: TUNER



Press a button to install the macro. A saved button macro can be edited.

Press the desired button.

If there are saved buttons, the Edit list screen appears.



Note



■ Cancel: go back to previous screen without saving.

: check the buttons saved on the device.

■ Delete : delete the buttons saved.

(Select a button to delete and press delete.)

Add : go to previous screen after saving.

1 Delay window: set the delay time after a function is inputted.

Select a function button and set the delay time using the wheel (0.2~20 secs).

2 This will be shown when the button is selected.

3 Up/down:. More than 5 buttons can be viewed. (Up to 20 buttons can be saved).

Press CD ► TV ► DVD ► FM and press when finished.

Press the desired button.
Pressing the Save button saves the information, and is followed by the appearance of a message asking, Changes to LABEL
Yes: moves to the label edit screen.
No: moves to Select My pick key screen.



Note

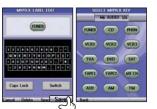
Exit : go back to the previous screen.Jump : move to the Jump Screen Setting.

■ Edit : move to the Edit List (refer to page 30).

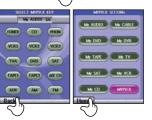
■ Save : After saving, move to label editing (refer to page 40~42).

5 Press Save .

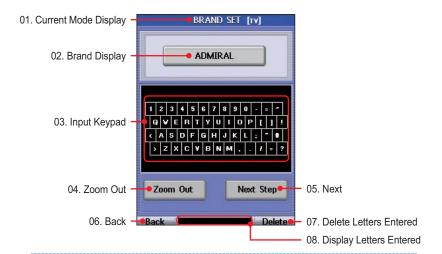
Please refer to the label editing screen. (page 40~42).



After pressing the **Back** icon, press the **Home** icon to end the mode.



I BRAND SET - Screen (■ ► ■)



- The <BRAND SET> icons are explained as follows.
 - 01. Display Current Mode and Device Settings.
 - 02. Display current brand, and click button to go to the next screen.
 - 03. Keypad to enter the brand.
 - 04. Zoom out.
 - 05. Go to the next screen if the brand is correct.
 - 06. Move to the <Preprogram> screen.
 - 07. Deletes the letters entered.
 - 08. Displays the letters entered.

Chapter 3 | Configuring the Settings



<SETTING> Mode

[<AUDIO>, <CABLE>, <DVD>, <DVR>, <TAPE>, <TV>, <SAT>, <VCR>, <CD>, <AUX1~5>]

HOME ► Use the same method to move to the <BRAND SET> menu.

I BRAND SET - TV Remote Control Setting

Displays the <REMOTE SETTING> screen.

■ Turn on the desired TV.

- Point the remote control at the TV.
- Ex: TV brand name LG (Goldstar).





Displays the [Devices] TV screen.



3 Press ______.

Press 🕯

Displays the <BRAND SET [TV]> touch pad.



Press the first letter of the brand name (for instance, "L" for "LG") on the <Brand set [TV]> screen.

Displays the touch pad to enter the brand name.





If the brand name displayed is a match, press the LGGOLDSTAR) icon.

Rotate the wheel left or right to scroll up and down through the brand names.



Press LIGGOLDSTAR) and check if your selection is correct by testing the power.

Continue pressing LG(GOLDSTAR) to select the correct model from the list.
(Do NOT hold the button down)



If the TV power works, press the verify



Check once again if it is the correct selection by using the number icons in the BRAND SET TV screen and/or wheel.



Press **Back** if all TV functions work.



Press Save to save.

The TV remote control setting is complete. The <BRAND SET> screen appears.



Press the Back button to end.

Repeat steps 3~11 to configure another TV.



Note

- Check the power supply status of the TV by using the LG (GOLDSTAR) icon.
- If power button works, verify all the functions with the <Verify> button. (move between screens using the wheel).
- Move to the next page using the wheel.



I IR/RF - Output Mode Setting

Press in the <Remote Setting> screen.

Displays the [IR/RF Setting] screen.



Press (AUDIO): RF output



After pressing the Save icon, press the Back icon to end the mode.



Note

■ You can learn the Power Key in two modes; Power On mode and Power Off mode.

Chapter 3 | Configuring the Settings



I LEARN - Learning Function Setting(Buttons)

Point the original remote control towards the 5X remote control directly at each other and keep both remotes within About 1 inch in order to enable the learning function.

Learning Buttons

Press in the <REMOTE SETTING> screen.





Press BUTTONS.

Buttons learn: transfers button functions. Devices learn: transfers device functions.



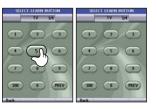
3 Press TV

Select a device to be learned.
The SELECT LEARN BUTTON message will continue to flash if a key is not pressed.



Press the icon to be learned.

Signals from the original remote control have a lag time of approximately 5 seconds. If no signal is registered for 5 seconds, a beep is sounded and the button pressed is reset.



Press the original remote control's button you want to be learned within 5 seconds.

Saving is automatic after the signal is received. After saving, the message, "Changes to LABEL?" appears.

Yes: moves to the Label Edit screen.
NO: moves to the Select Learn Button screen.



6 Press Save .

Please refer to page 40~42 for label editing methods. shows functions undergoing learning.



Press the Back icon to end.

Repeat steps 4~5 for more buttons to be learned.







I LEARN - Learning Function Setting(Devices)

Point the original remote control and the remote control to undergo learning directly at each other within 1 inch.

Learning Devices

Press DEVICES in the <LEARNING> screen.

[Select the screen button] appears briefly.



Press a device button to be learned.

Signals from the original remote control have a lag time of approximately 5 seconds. If no signal is registered for 5 seconds, a beep is sounded and the button pressed is reset.



Press the original remote control's button you want to be learned within 5 seconds.

The signal is saved automatically after it is received.

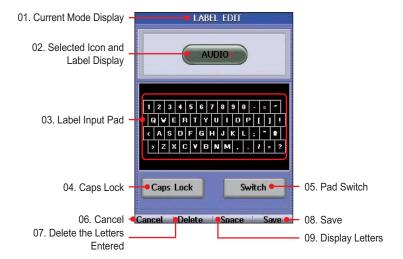


A Press the **Back** icon to end.

[Select the screen button] message appears briefly. (repeat steps 2~3 if there are more devices to be learned).



I LABEL - EDIT Screen ()



- The <LABEL EDIT> menus are explained as follows.
 - 01. Displays current mode.
 - 02. Display the selected icon and label.
 - 03. Keypad to enter the label.
 - 04. Caps lock.
 - 05. Move to a different pad page. (total of four)
 - 06. Cancel.
 - 07. Delete letters entered.
 - 08. Save.
 - 09. Enter a space.

I LABEL - Group Label Edit

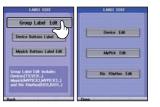




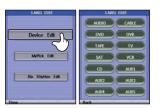
Press Group Label Edit

Group Label Edit

- Device Edit
- MyPick Edit
- Bio Rhythm Edit











Press "1" in the <Label Edit> screen.

Displays a magnified pad.



Press "1" in the <Label Edit> screen.

Displays the changed icon.



Press Save to end.

The <Label Edit> screen appears.
Repeat steps 4~7 if more label editing is desired.





■ Press Switch to go to a different pad page. (Total 4 pages)



Chapter 3 | Configuring the Settings



I LABEL - MyPick Edit / Bio Rhythm Edit

The setting method for the MyPick Edit and the Bio Rhythm Edit is the same (refer to page 41~42).





Mypick Buttons Lubel Edit

I LABEL - Device Button / Mypick Button

The setting method for the Device Button and the Mypick Button is the same (refer to page 41~42).





I CALIBRATE - Touch Screen Setting



Displays the <CALIBRATION> screen.



Press <Touch Screen>.

Displays the <Touch Screen> setting screen.



3 Press **X** in sequence.

(Caution: Mark the center point precisely.)



The Calibration Success message appears when finished, followed by saving and a return to the <Home> screen.

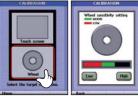
Displays the <Home> screen.



I CALIBRATE - Wheel Setting

Press the Wheel in the <Calibration> screen.

Displays the Wheel setting screen.



Press Low High to adjust.

: decrease sensitivity.

Caution: Check that the wheel works properly after adjustment is complete.

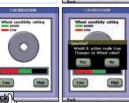


Press the Back icon to end.

The message Would it action really true Changes to Wheel value appears.

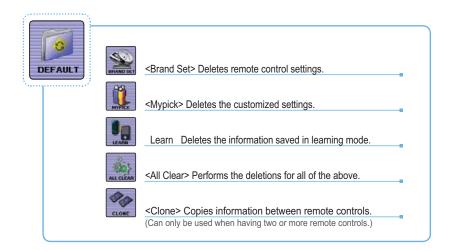
Yes : moves to the Remote Setting screen.

No: returns again to the sensitivity adjustment screen.





I DEFAULT Menu Descriptions



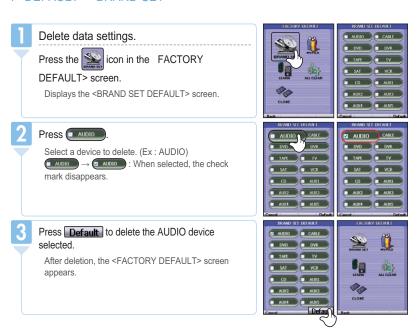
I FACTORY DEFAULT - Moving



Chapter 3 | Configuring the Settings



I DEFAULT - BRAND SET

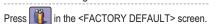




I DEFAULT - MYPICK

The deletion procedures are identical with those of the <Brand Set> (refer to page 47).

Delete data settings



Displays the <MYPICK DEFAULT> screen.



I DEFAULT - LEARN

The deletion procedures are identical with those of the <Brand Set> (refer to page 47).

Delete data settings

Press in the <FACTORY DEFAULT> screen.

Displays the <LEARNING DEFAULT> screen.



Chapter 3 | Configuring the Settings



I DEFAULT - ALL CLEAR

Deletes all information saved in <Brand Set>, <My Pick>, and <Learn>.

Delete all data settings

Press in the <FACTORY DEFAULT> screen.

Displays the <FACTORY SETTING> screen.

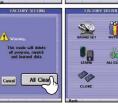


Press All Clear

After full deletion, the <FACTORY DEFAULT> screen appears.

All Clear : delete all.

cancel : go back to the previous screen without saving.



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I DEFAULT - CLONE

Using two remote controls, a user can save all the information from one to the other.



Press in the FACTORY DEFAULT screen.

Ex: a completely configured remote control.

Press Source



2nd Remote Control

Press in the FACTORY DEFAULT screen.

Ex: a non-configured remote control.

When the progress bar has completed, it automatically saves and ends.





SOURCE Remote

TARGET Remote

MEMO

