



DVB-T
Digital TV Receiver

USER MANUAL

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Output Mode Selection:

By Hot Key **VIDEO** at the RCU or **MODE** Key on the panel, User can select its favorite display mode following up Indicator color.

Indicator color description:

1. **Green --- CVBS+RGB**
2. **Red --- Y.Pb.Pr**

First Time Installation:

1. When user first time installed this device, the default display mode is CVBS+RGB.
2. Press Hot Key once, the display mode will be switched to Y.Pb.Pr mode.
It recycles as below: CVBS+RGB → Y.Pb.Pr → CVBS+RGB

Pls note before use:

User should be sure to correctly match each display mode. For example, Under AV mode, user should use AV cable. Under Y.Pb.Pr mode, user should use Y.Pb.Pr cable. If not correctly matched, the screen will indicate unavailable normally show. Under this situation, User should press Hot Key to switch between these two display modes.

Convenient Functions-continued

Displaying Information of the Program

Press **Info** <INFO.> during TV playback, and the corresponding information of the program will appear on the screen.

Program Info			
Program Name	FMTV		
Program No	2	Video-PID	3011
Channel No	28	Audio-PID 1	3012
Frequency	557	Audio-PID 2	4322
Modulation	QAM16	Hierarchy Mode	0
Guard Interval	1/4	HP Code Rate	2/3
Transmit Mode	8K	LP Code Rate	2/3
Strength	64%	<input type="text"/>	
Quality	55%	<input type="text"/>	

Digital Teletext

If the program you are watching broadcasts digital teletext, the Set Top Box can display teletext. The content of digital teletext varies according to the program provider. It could be pictures and sound for the program, pages of information on the programs, the weather, the news or other options.

Press **Teletext** <Teletext> button, the teletext window appear on the screen.

Favorite PR (Favorite Program)

There are some channels that you tend to watch more often and some only occasionally. Favorite PR allows the most-watched channels to access more easily, leaving less watched channels accessible but out of way.

Press **FAV** <Favorite PR> .

"Fav On" appears on the screen, and the favorite program is activated; by pressing <CH- / CH+ >, you can only step through the favourite programs. Other programs can still be accessed by entering the program number.

FCC and Safety Information

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.

Important Safety Instructions

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 a damp cloth. Please unplug power.
7. Do not block any of the 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 (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as when the 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.

A Class II APPARATUS shall be permanently marked with the words "DOUBLE INSULATION" or "Double insulated" and "When servicing use only identical replacement parts."

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Precautions

Please read these precautions before operating this unit.

■ Power cord protection

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair the AC power cord in any way.
- Never make or change connections with the power switched on.

■ Placement

Avoid placing the unit in areas of:

- direct sunlight or heating radiators, or closed automobiles
- high temperature (over 35°C) or high humidity (over 90%)
- dust as the internal parts may be seriously damaged.

■ Non-use periods

When the unit is not being used, turn it off. When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

■ No fingers or other objects inside

- Touching internal parts of this unit is dangerous, and may cause serious damage to the unit. Do not attempt to disassemble the unit.
- Do not put any foreign object in this unit.

■ Keep away from water

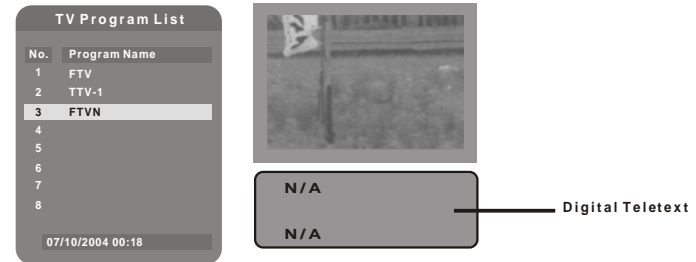
- Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.

Convenient Functions-continued

EPG (Electronic Program Guide)

The Set Top Box provides you an Electronic Program Guide to take a fast preview of live broadcasts from each TV channel in advance of watching it in full screen.

- 1 Press **EPG** <EPG>.
An Electronic Program Guide Menu appears on the screen, with a TV channel menu to the left and corresponding live broadcast of the selected program to the right.



- 2 Press **RIGHT** <RIGHT> to display more information provided by the selected channel. Press **LEFT** <LEFT> / **EXIT** <EXIT> to return to program list.

The content of digital teletext varies according to the program provider. It could be pictures and sound for the program, pages of information on the programs, the weather, the news or other options. Some channels provide only digital teletext that carry no normal TV program; if so, you can't see the preview of the channels with EPG function.



- 3 Press **UP** <UP> / **DOWN** <DOWN> to toggle through each TV channel and to see its live broadcast.
- 4 Press **OK** <OK> to watch your preferred program in full screen.

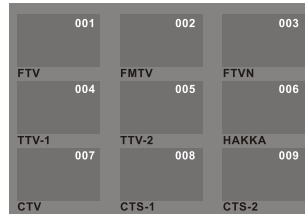
Convenient Functions-Continued

Channel Guide

Convenient Functions-continued

The Set Top Box provides you a quick channel guide consisted of live broadcasts from each TV channel. You can use this function to take a fast preview at all the TV programs in pages of 9 thumbnails at a time in advance of watching it in full screen.

- 1 Press **Guide** <GUIDE> .
A Channel Guide Menu consists of 9 thumbnails at one page appears on the TV screen.

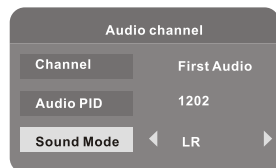
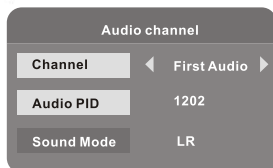


- 2 Press **Left** / **Right** / **Up** / **Down** to toggle through each TV channel and to see its live broadcast, all the thumbnail image (TV channel) is updated every few seconds until you leave this page.
- 3 Press **OK** <OK> to watch your preferred program in full screen.

Audio Function

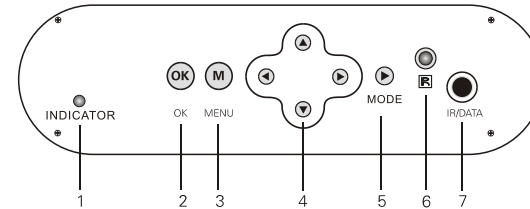
You can select the preferred audio channel and sound mode.

- 1 Press **Audio** <Audio> to enter "Audio channel".
- 2 Press **Left** / **Right** to select "Channel".
When the "Channel" option is changed, the value of "Audio PID" will also change to the correct value.
- 3 Press **Down** to highlight "Sound Mode" and press **Left** / **Right** to select preferred "Sound Mode".



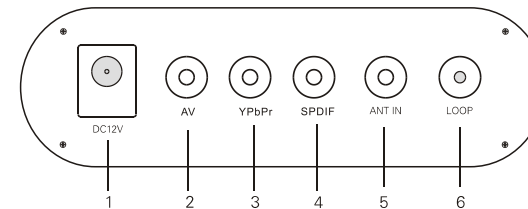
Identify Your Set Top Box

Front Panel



1. INDICATOR
2. OK
3. M: Menu
4. Up/Down: CH+/CH-
Left/Right: Volume+/Volume-,
5. MODE: Indicator video mode switch
6. IR: Infrared Sensor
7. IR/DATA: Indicator Connector for the infrared external sensor for software updating (action to be carried out by authorised technical staff)

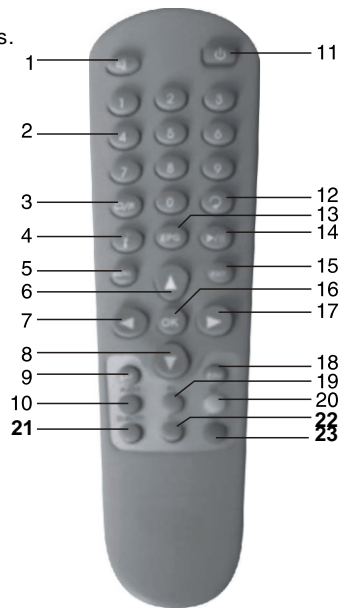
Back Panel



1. DC 12 V
2. AV: Audio and video output
3. YPbPr: Y, Pb, Pr
4. SPDIF
5. ANT IN: Antenna IN
6. LOOP: Output for TV Antenna or Video.

Remote Control

1. Mute: Press to turn off/on the sound
2. Number Key: Press to input numbers.
3. TV/Radio: Press to switch between TV and Radio mode.
4. Info: Press to view the program edit table.
5. Menu: Press to display/exit Main Menu.
6. Up
7. Left
8. Down
9. Digest: Thumbnail of each channel.
10. EPG: Press to display/exit Electronic Program Guide.
11. Power: Turn on/off.
12. Recall: Go back to the previous program.
13. L/R: Sound mode switch.
14. Play/Pause: Pause the current picture.
15. Exit: Press to cancel the current operation or go back to Main Menu.
16. OK
17. Right
18. Fav: Press to switch between Fav On and Fav off.
19. Subtitle: Display the subtitle when transmitted.
20. TTX: Press to display/exit digital teletext when transmitted.
21. Audio: Press to operate multi-language function.
22. Edit
23. TTX: Press to display digital teletext when transmitted

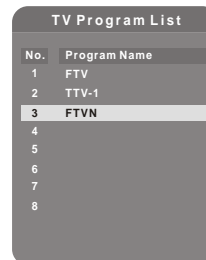


Convenient Functions

Fast Preview

The Set Top Box provides you fast preview of live broadcasts from each TV channel. You can use this function to take a fast preview at all the TV programs in advance of watching it in full screen.

- 1 Press **OK** <OK>. A TV Channel Menu appears to the left with corresponding live broadcast of the selected program to the right.



- 2 Press **▲** <UP> / **▼** <DOWN> to toggle each TV channel and to see its live broadcast.
- 3 Press **OK** <OK> to watch your preferred program in full screen.

How to Select Programs

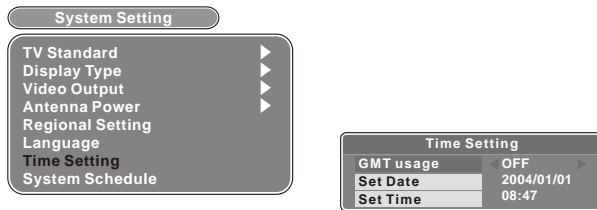
The Set Top Box provides you the following ways to select programs:

- *Press <CH-/CH+ > to step through the program selection.
- *Press number button(s) to enter the program number you want to view.
- *Select program from the program list.
- *Press **EPG** <EPG> to select program from the Electronic Program Guide.

System Setting -continued

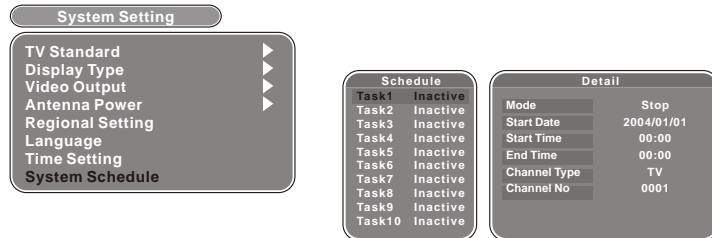
D-7 Time Setting

You can set date and time when turning on or off the GMT usage.



D-8 System Schedule

You can set the task you want showed below. On the right side, it's the detail information of the task.



E Game

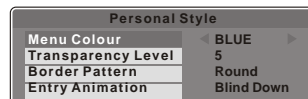


F Accessory



G Personal Style

You can set the Menu Colour, Transparency Level, Border Pattern and Entry Animation in the "Personal style" showed below.



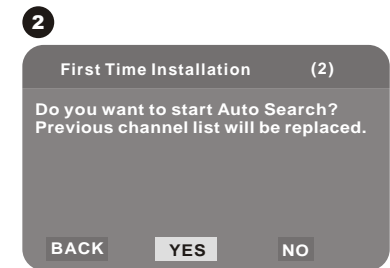
First Time Installation

First Time Installation

When you connect your Set Top Box for the first time, no channels are stored in your unit. A First Time Installation Wizard will appear automatically on the screen. Continue with the OSD (On-Screen-Display) to do the following setting.



- Connect your Set Top Box to your TV.
 - Press <POWER> on the Set Top Box or press <Power> on the remote control to turn on the unit.
- A First Time Installation Wizard appears (Picture 1). Press <OK> to select "YES".
 - Press <UP> / <DOWN> to select the item you wish to set up, and then press <LEFT> / <RIGHT> to switch to your preferred setting.
 - Press <DOWN> to select "NEXT", and then press <OK> to continue to the next page. [1]
 - To start Auto Search, press <OK> to select "YES". [2]
All the receivable programs (including TV and Music) will be listed respectively on the screen. This process may take a few minutes to be done.
 - After Program Search is done, press <LEFT> / <RIGHT> to select and start watching TV programs.



*To return to the preceding menu

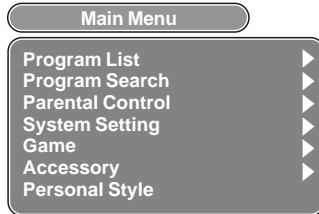
---Press < EXIT > .

Initial OSD Setting

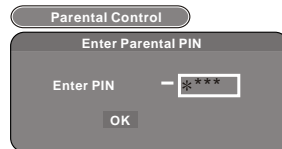
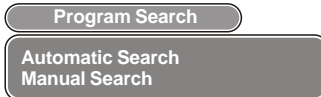
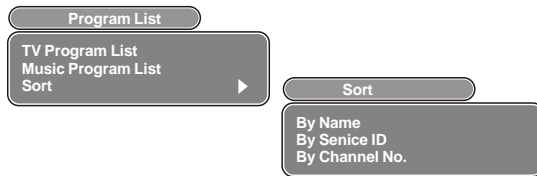
Main Menu

Most of the Settings of your Set Top Box can be done by following the OSD instructions (*Main Menu). In Advance:

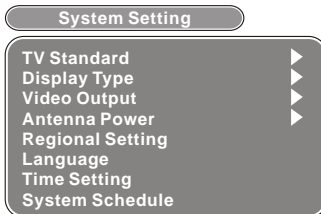
- Press <Power> on the Set Top Box or press  <Power> on the remote control to turn on the unit.
- Turn on your And select AV IN.
- Press Menu <Menu> to display the Main Menu.



The following is the overview picture:



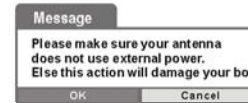
After type into the PIN and press ok,



System Setting -continued





<<NOTE>>

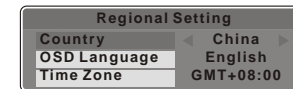
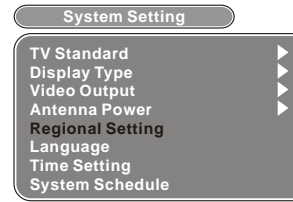
If you choose to set the antenna power to ON, the following will appear on the screen as the reminder.



D-5 Regional Setting

This function allows you to set the time zone of your location and corresponding bandwidth of the digital signals all at once simply by selecting the country you are currently in.





- Under Main Menu, press  <DOWN> to select "System Setting" and then press  <OK>.
- Press  <DOWN> to select "Regional Setting" and then press  <OK>.

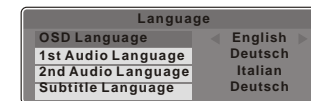
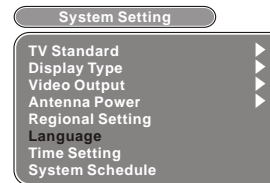


GMT: The current time is set automatically whenever GMT offset changes.

D-6 Language

This function allows you to set the language of your OSD (On-Screen Display) Menu.

- Under Main Menu, press  <DOWN> to select "System Setting" and then press  <OK>.
- Press  <DOWN> to select "Language" and then press  <OK>.



System Setting-continued

a. 4:3 Pan Scan

Select "Pan & Scan" (4:3) for a conventional size TV set.

- Video material formatted in the pan & scan style is played in that style (the left and right edges are cut off).



b. 4:3 Letter Box

Select "4:3 LB" for a conventional size TV set. Black bands appear at top and bottom of screen (letter-box style).

- Video material not formatted in the pan & scan style is played in the letter-box style.



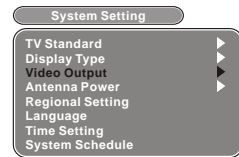
c. 16:9

Select "16:9" for a wide-screen TV set.
"Played in "FULL" size.

- Setting the wide-screen TV to "FULL" mode is also necessary.
- Each screen shows an example when the video material for a wide-screen is played.










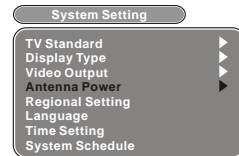
D-3 Video Output



D-4 Antenna Power

If you are using passive Antenna Power, set Antenna Power to "OFF"; if you are using active Antenna Power, set Antenna Power to "ON".

- Under Main Menu, press  <DOWN> to select "System Setting" and then press  <OK>.
- Press  <DOWN> to select "Antenna Power" and then press  <OK>.
- Press  <UP> /  <DOWN> initiate antenna power and then press  <OK>.





Program List

A. Program List

A-1 TV Program Editing

Before editing your TV programs, make sure you have finished with program search, which should be done by completing the First Time Installation Wizard. If not, you have to set up your TV programs first. Please refer to "Program Search" for details.


- Under Main Menu, press  <OK> to select "Program List".
- Under Program List, press  <OK> to select "TV Program List".
- A program edit table appears on the screen. You can use this table to edit your Favorite TV programs, rearrange your TV program numbers or delete the TV programs you dislike.

Program edit table




The following table is present in the TV Program Editing and Music Program Editing menus. You may set your favorite program list, switch program numbers, or delete an existing program.

Program edit table				
No.	Program Name	Favor	Move	Del
1	FTV			
2	FTVN			
3	FMTV			
4	TTV-1			
5	TTV-2			
6				
7				
8				

<< NOTE >>

If you have set Channel Lock to "YES", the PIN code is requested when deleting channels. Simply enter the PIN code to continue and press  <OK>.

Favorite Program Setting

- In the program edit table, under "Favor" section, press  <UP> /  <DOWN> to highlight the corresponding box of your favorite program and press  <OK>. You will see a "♥" icon appears on this box, representing that this program is added to your favorite program list.
- Repeat Step 1 to add more favorite TV programs.

Program edit table				
No.	Program Name	Favor	Move	Del
1	FTV			
2	FTVN			
3	FMTV	♥		
4	TTV-1			
5	TTV-2			
6				
7				
8				

- You can set up your favorite programs by using remote control.
- You can press <CH-/CH+> to step through your favourite program only after one or more favourite programs are set up.

Program List-continued

Switch Program Setting

- Step 1.** In the Program edit table, press **<RIGHT>** to highlight "Move" section.
- Step 2.** Under "Move" section, press **<UP>** / **<DOWN>** to highlight the corresponding program box you wish to change and press **<OK>**. You will see a "↑↓" icon appear on this box, representing that you can move the selected program.
- Step 3.** Press **<UP>** / **<DOWN>** button to move the selected program to the place you want, and then press **<OK>**.
- Step 4.** Repeat Step 2-3 to switch more programs.

Program edit table				
No.	Program Name	Favor	Move	Del
1	FTV			
2	FTVN			
3	FMTV			
4	TTV-1			
5	TTV-2		↑↓	
6				
7				
8				

Delete Program Setting

- Step 1.** In the Program edit table, press **<RIGHT>** to highlight "Del" (Delete) section.
- Step 2.** Under "Del" section, press **<UP>** / **<DOWN>** to highlight the corresponding program box you want to delete, and press **<OK>**, a "X" icon appears on this box.
- << NOTE >>**
The system will prompt asking for PIN code if you have set Channel Lock to "YES". Simply enter the PIN code to continue and press **<OK>**.
- Step 3.** Press **<EXIT>** to exit, when you enter program edit table next time, the selected program will no longer exist.
- Step 4.** Repeat Step 2-3 to delete more unwanted programs. (PIN code is only requested for first channel deletion when the Channel Lock is set).

Program edit table				
No.	Program Name	Favor	Move	Del
1	FTV			
2	FTVN			
3	FMTV			
4	TTV-1			
5	TTV-2			X
6				
7				
8				

Enter Parental PIN

Enter PIN

OK

Once the programs are deleted, there is no way to add them back. To watch those deleted programs, you will need to do Program Search again. Please note that by doing so, your previous program list will be replaced.

System Setting

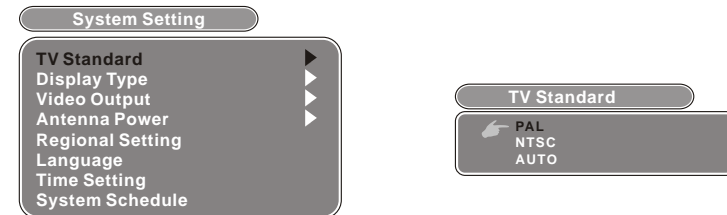
D. System Setting

This function allows you to set up the normal aspect ratio (picture display shape) according to source signal and monitor format of your TV, or your own viewing preference.

D-1 TV standard

This function enables you to set the screen format of the TV set connected so that those broadcast programs are displayed correctly.

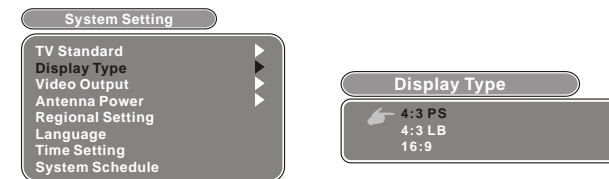
- Under Main Menu, press **<DOWN>** to select "System Setting" and then press **<OK>**.
- Under System Setting, press **<OK>** to select "TV Standard"
- Press **<UP>** / **<DOWN>** to select a preferred TV Standard mode and then press **<OK>**.



D-2 Display Type

This function allows you to select the Display Type of your Set Top Box.

- Under Main Menu, press **<DOWN>** to select "System Setting" and then press **<OK>**.
- Press **<DOWN>** to select "Display Type" and then press **<OK>**.
- Press **<UP>** / **<DOWN>** to select a preferred Display Type and then press **<OK>**.



Parental Control-continued

Parental Setting		
No.	Program Name	Lock
1	FTV	
2	TTV-1	
3	FTVN	
4		
5		
6		
7		
8		

c. "Change PIN"

You can change the PIN code.

1. Press the number button to enter 4-digit old PIN code.
2. Press the number button to enter new PIN code.
3. Re-enter new PIN code to confirm it.

The default PIN is 8888. You may change your PIN code soon as you enter this menu. Remember to keep your PIN Code in a secure place.

Change Parental PIN

Old PIN

New PIN

Confirm New PIN

OK

Program Search

B. Program Search

To Enjoy the high quality of digital TV signals through the Set Top Box, you have to search for all the available TV program first. This unit provides you with 2 ways of program search, including Automatic Search and Manual Search.

B-1 Automatic Search

- 1 Under Main Menu, press <DOWN> to select "Program Search" and then press <OK>.

<< NOTE >>

The system will prompt asking for PIN code if you have set Channel Lock to "YES". Simply enter the PIN code to continue and press <OK>.

Enter Parental PIN

Enter PIN

OK

- 2 Under Program Search, press <OK> to select "Automatic Search".
- 3 An Automatic Search window appears on the screen. All the receivable TV/Music programs will be listed respectively in the TV List/Music boxes below. This process may take several minutes to be done.

Warning

Do you want to start Auto Search?

OK Cancel

Automatic Search

Progress 60%

Channel No 52

Frequency 729 MHz

TV List: 005

FTV
FTVN
FMTV
TTV-1
TTV-2

Music List: 003

SBC
FBC
FBCTEST

After Program Search is done, you can start watching TV or listening to Music programs by pressing < CH-/CH+ >.

<< NOTE >>

If you want to re-do Automatic Search, the following will appear on the screen as the reminder: Select "YES" to re-do Automatic Search; if not, select "NO".

Message

Do you want to erase
your previous channel list?

YES NO

Program Search-continued

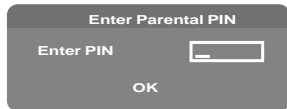
B-2 Manual Search

You can locate specific programs by selecting frequency numbers.

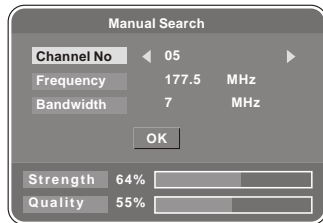
- 1 Under Main Menu, press <DOWN> to select "Program Search" and then press <OK>.

<< NOTE >>

The system will prompt asking for PIN code if you have set Channel Lock to "YES". Simply enter the PIN code to continue and press <OK>.



- 2 Under Program Search, press <DOWN> to select "Manual Search" and then press <OK>.
- 3 An Manual Search window appears on the screen. Press <LEFT> / <RIGHT> to select "Channel Number", and the corresponding frequency number will show from down below.



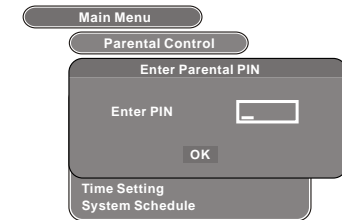
- 4 Press <DOWN> to highlight "OK", and press <OK>.

Parental Control

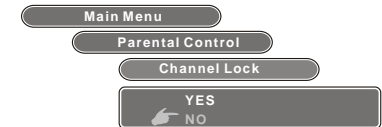
C Parental Control

This function allows you to lock the programs that you do not want your children to watch. For example, if you set the selected programs to be locked, then the programs can't be watched unless the correct PIN code is entered.

- 1 Under Main Menu, press <DOWN> to select "System Setting" and then press <OK>.
- 2 Press <DOWN> to select "Parental Control" and then press <OK>.
- 3 In the Parental Pin window, enter the 4-digit Pin number.



- 4 Press <DOWN> and enable "OK", then press <OK> to enter the Parental Control window.
- 5 Press <UP> / <DOWN> to select the preferred Parental Control option.
 - a. "Channel Lock"
Channel Lock helps parents limit youngsters' TV programs. Any channel can be "locked" to avoid viewing without a 4-digit PIN code being entered. Therefore, for those channels not suitable for young viewers can be protected. If you want to lock the current channel you are watching, select "YES" and then press <OK> to lock the channel.



<< NOTE >>

When the Channel Lock is set to "YES" the system will prompt asking for PIN code if you perform Program Search, Delete Channel or Factory Default.

b. "Parental Setting"

- 1 Press <UP> / <DOWN> to select the preferred program.
- 2 If you want to lock the selected program, press <OK>, a lock icon " " appear on the Lock box. Then the selected program is locked. Press <OK> again if you want to unlock it.