

For your safety

Important notice you need to know before accessing this receiver. Please read and understand this manual before using the receiver.

1. This receiver should be operated only from the type of power source indicated on the back label. If you are not sure of the type of power available, consult your dealer or local power company.
2. Pulling the power supply cord will disconnect the device, the socket-outlet shall be installed near the equipment and shall be easily accessible. Always disconnect power supply cord before servicing.
3. This receiver should never be placed near or over a radiator or heat register. Do not allow the receiver to be exposed to hot, cold, or humid conditions.
4. Do not attempt to service this receiver yourself, as opening or removing the receiver cover may cause the damage to the receiver. Refer all servicing to service personnel.
5. Unplug this receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed
 - If liquid has been spilled into the receiver
 - If the receiver has been exposed to rain or water
 - If the receiver does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extension work by a qualified technician to restore the receiver to normal operation
 - If the receiver has been dropped or the cabinet has been damaged
 - If the receiver exhibits a distinct change in performance, indicating a need for service
6. Do not stack any electronic components onto the receiver.
7. Unplug this receiver from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

DVS-821 User Manual

About this Manual

This manual provides you an overview of functions of your decoder.

- **Installation and Preparation** - This section will show you a complete guide line how you install the receiver and how to operate remote control.
- **Operation of DVS-821 Decoder** - If you are not familiar with the satellite TV, you need to read this section carefully in order to access and explore DVS-821.
- **Trouble-shooting** - The table will answer and solve most of possible problems occur.

Features

Digital satellite receiver offers satellite video/audio broadcasting service and has the capacity to receive one hundred transponder signals and three hundred channels.

The easy-accessed on-screen setup is designed to help you to install basic setups and use channel list on your TV screen.

With the receiver, you may get to enjoy free-to-air channels of satellite broadcasting channels.

FCC Statement on CLASS B



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 when the equipment is operated 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 manual 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

Notice:

- (1) The changes or modification not expressly approved by the party responsible for compliance could void the user authority to operate the equipment
- (2) Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

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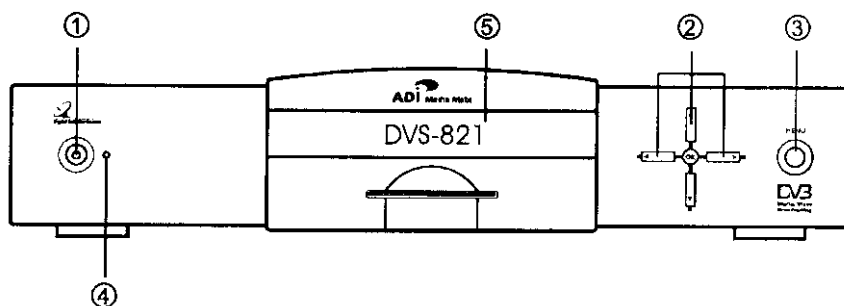
Installation and Preparation

Checking the Package Contents

Check that 10 items are present and in good condition:

1. DVS-821 receiver
2. Remote control
3. Two pieces of AAA size batteries
4. AV (Audio/Video) cable
5. S-VHS cable
6. 0/12 volt cable
7. SCART cable
8. Power cord
9. 75 remodulation signal cable
10. User manual

Front Panel Buttons and LEDs

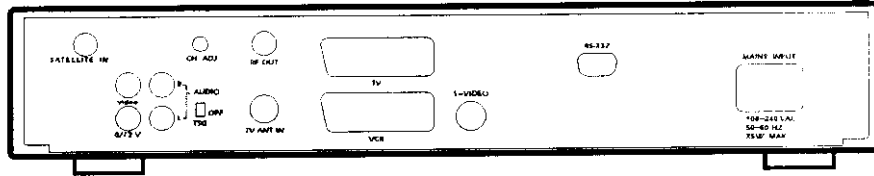


The front panel includes the following function keys:

- ① **POWER standby:** Puts the decoder into standby mode or take it out of standby.
- ② **Arrow keys / OK:** The Arrows keys are used to move up and down the menu. The OK key is for confirming any highlighted options in the menu. The ◀ / ▶ keys can also be used for volume adjustment, and ▲ / ▼ arrow keys for moving up and down within the menu.
- ③ **Menu:** Displays the main menu when it is not activated on your TV screen or vis versa.
- ④ **Standby indicator:** Lights up when the decoder is at operating mode.
- ⑤ **VFD** Vacuum Fluorescent Display, is a display screen.

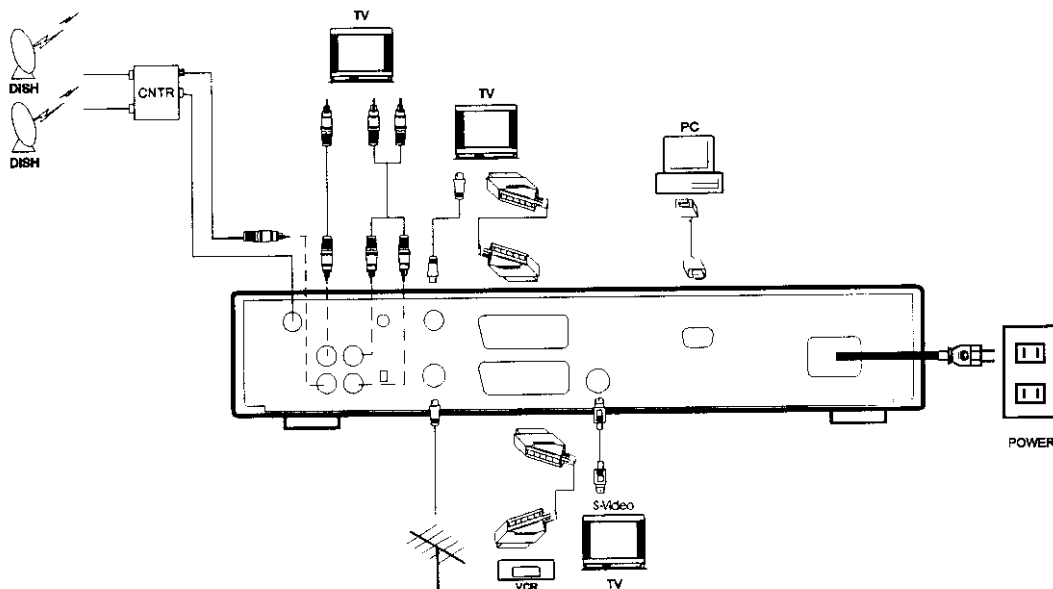
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Rear Panel Ports



- ◆ Satellite IN: Dish signal input
- ◆ +5V, pulse: LNB servo polarization control
- ◆ 0/12 V LNB control
- ◆ TSG: Test signal
- ◆ TV/VCR: SCART interface to TV/VCR
- ◆ S-Video: S-sync connect to TV S-VHS input
- ◆ RS232: Low speed data port
- ◆ RF OUT: Modulating UHF/VHF signal output
- ◆ TV ANT IN: Terrestrial signal input

Connections Setting

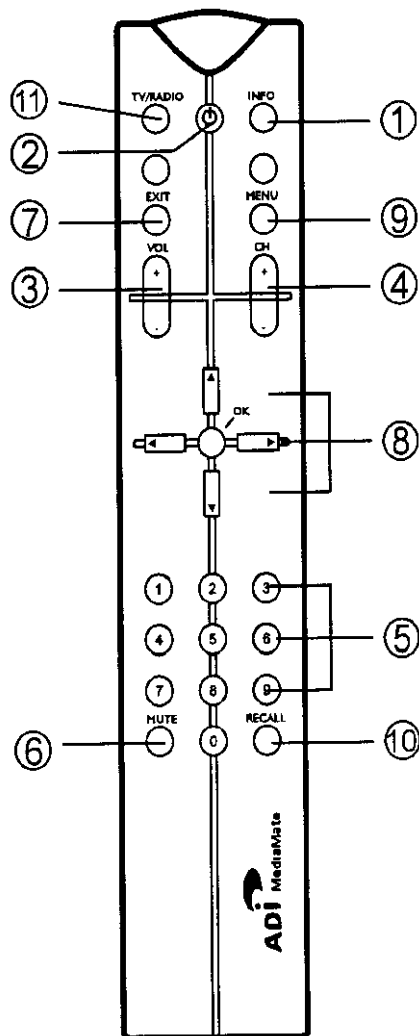


- ✓ Never remove the decoder cover.
- ✓ Unplug the unit from the wall outlet when the power supply cord or plug is damaged or frayed.
- ✓ Do not turn on the power until all the necessary cables have been connected.

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Remote Control Keys

When using the unit, one touch of following buttons for quick services.



① **INFO:** Displays information of the current channel like channel number, channel name and service provider.

② **POWER standby:** Puts the receiver into standby mode or take it out of standby.

③ **Volume (+/-):** To adjust the volume.

④ **Channel (+/-):** To step up and down the channels (“+” for next channel; “-” for preceding channel).

⑤ **Number keys:** To select different channels and to input numbers in menu.

⑥ **MUTE:** To mute the sound.

⑦ **EXIT:** To quit the current menu and other information from the screen or *AV mode*.

⑧ **Arrow keys/ OK:** The Arrows keys (▲, ▼, ◀, ▶) are used to move up and down or left and right the menu. OK key is for confirming highlighted options in the menu.

Each of the four arrow keys also represents a one touch menu pop-out function outside the OSD menu.

▲ **key:** Displays Audio Selection menu. (See page 11)

▼ **key:** Switches between VCR and SAT. (See page 9)

◀ **key:** Chooses Favorite Group. (See page 14)

▶ **key:** Lists Channel List. (See page 13)

⑨ **MENU:** Displays the main menu.

⑩ **RECALL:** Jumps to the last viewing channel.

⑪ **TV/ RADIO:** To switch between TV and Radio programs.

NOTES: Install two AAA batteries into the compartment using correct polarity (+, -).

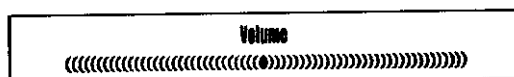
Operation of the Receiver

Make sure all connection to the decoder is properly installed.

Quick Tips on Useful Buttons

1. Press **<POWER>** key to display the channel you watched before it was turned off. If power on for the first time, the receiver will show the main menu for installation.
2. Select channels by using the **Channel <+/->** key on the remote control. Adjust volume by using the **Volume <+/->** key. While adjusting channel or volume, the volume and channel bar will be displayed the screen.

- **Volume**



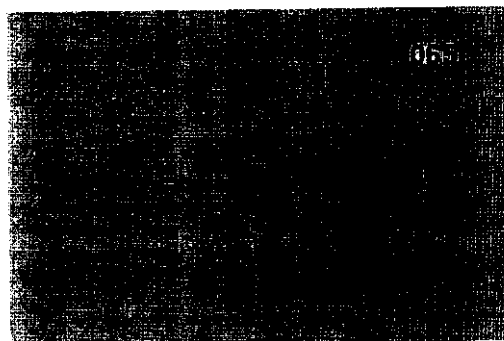
- **Key in channel number**

Use Number buttons (0-9) to tune to a channel directly.

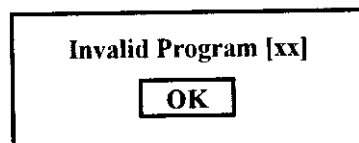


- **TV channel**

The channel number will be shown at the upper right hand corner on your TV screen.



If wrong channel number has been keyed in, an on-screen warning message will show up.

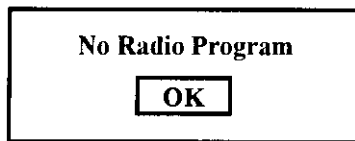


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Press **OK** key to exit this message and key-in the correct channel number you would like to watch.

- **TV/RADIO Channel**

When **TV/RADIO** key on remote control is pressed while your television is in TV program, and if there is no radio program at the moment, you will see an on-screen message as below.

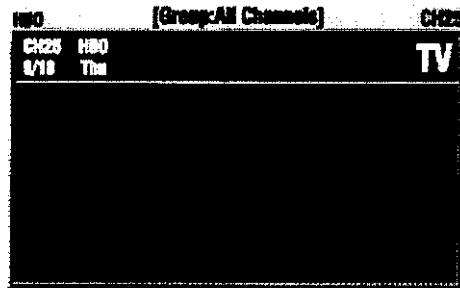


Press **OK** to exit this message.

- **Channel information**

Step 1. Press **INFO** key to give short information of the program.

Information



- * Service name (e.g. HBO)
- * Channel number (e.g. CH 25)
- * Whether it's a Scrambled program (e.g. a Pay program) or not
- * Indicating current Favorite Group
- * TV or Radio mode

Step 2. Press **EXIT** to quit the menu.

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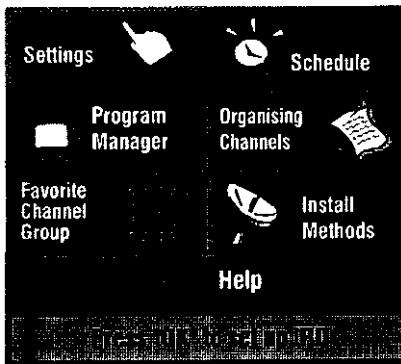
Steps for using the menu

1. Press <MENU> key to display the main menu.
2. From the main menu, use the ▲ / ▼ keys from the remote control to select your desired option. The selected option will be highlighted and press **OK** to choose it.

NOTES: If **OK** key is pressed, it means the option has been selected. This is applicable for all the menus and sub-menus.)

Main Menu

Press **MENU** key at the front panel or on the remote control to activate the on-screen Main Menu.



Use ▲ / ▼ arrow keys to move the green cursor up or down.

Use ◀ / ▶ arrow keys to move the cursor left or right.

Press **OK** to select a menu.

NOTES: *Schedule is currently not functioning in this model.*

There will be a help message for each menu whenever the green cursor lay on it.

| | |
|--------------------------------|--|
| Settings | Press “OK” to set up the IRD. |
| Program Manager | Press “OK” for channel/program sorting. |
| Favorite Channel Groups | Press “OK” to edit your favourite channels. |
| Schedule* | Press “OK” to list the reserved future programs |
| Organizing Channels | Press “OK” to organize TV/RADIO channels. |
| Install Methods | Press “OK” to install the IRD. |
| Help | Press “OK” to show all the functions on remote controller. |

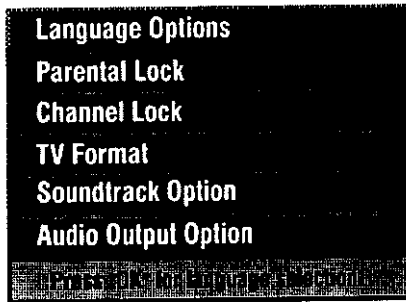
* *The Schedule of this model shed in gray does not function.*

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Settings

When “Settings” is chosen, the sub-menu is shown. It includes 6 items.

Settings



Highlight bar

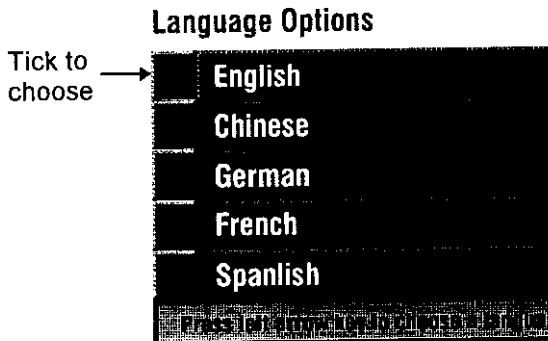
Use ▲ / ▼ key to scroll the highlight bar up and down for menu selection.

There will be direction messages on each menu whenever the green cursor lay on it.

| | |
|---------------------|---|
| Language Option | Press “OK” for language selection |
| Parental Lock | Press “OK” to set censorship level |
| Channel Lock | Press “OK” to lock/unlock channels |
| TV Format | Press “OK” to select your TV format |
| Soundtrack Option | Press “OK” to select the required soundtrack |
| Audio Output Option | Press “OK” to select the audio output channel |

1. Language Options

Language options menu is to select the language of the menu.



Help message:

Press left arrow key to choose a language. Press “OK” to finish setting.

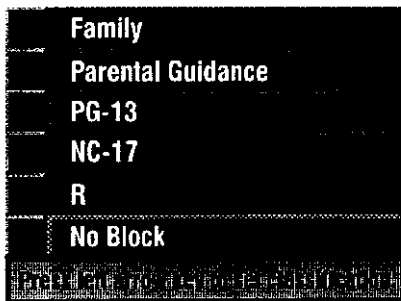
Press **OK** to save and return to Settings.

Press **EXIT** to cancel and return to Settings.

2. Parental Lock

Parental lock is to categorize TV program ratings.

Parental Lock



Help message:

Press left arrow key to set classification. Press "OK" to finish setting.

You will be asked to enter password for parental lock setup.

Please Enter Password



If the correct password is pressed, it will go to the sub-menu. The menu is shown on the left. The default value of the password is 0000.

Use number keys (0-9) to enter password.

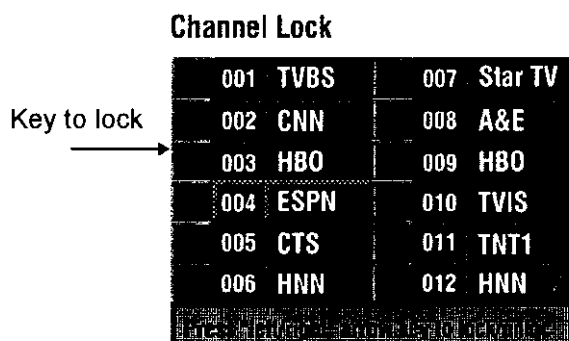
After you have finished parental lock setup, press **OK** to save and return to Settings or press **EXIT** to leave Parental Lock menu with no change.

NOTES: You still need to key in password even if the program is rated the same as your setting.

3. Channel Lock

Channel lock is used to lock specific channels, so the viewers have to key in password in order to watch those channels. TV programs will be listing before radio programs.

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Help message:

Press left arrow/right arrow key to lock/unlock channels

If “Channels Lock“ is chosen, you must enter the password to pass the verification.

Please Enter Password



If the correct password is pressed, it will then get into the Channel lock menu.

Then press **OK** to save and return to Settings or press **EXIT** to leave Channel Lock menu with no change.

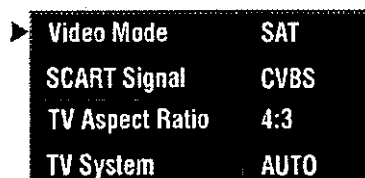
NOTES: After you choose to lock channels, you will be asked to key in password. If the wrong password has been pressed, the screen will jump back to the last channel you were watching and you won't be able to watch the lock channels. You need to key in password every time you tune to those lock channels.

4. TV Format

This sub-menu is to allow you to choose your TV set format. The IRD will send the suitable video signals for you.

➤ You may press ▼ key on the remote control to switch between VCR and SAT. It is a one-touch hot key function. Please use it when you are not in the OSD menu.

TV Format



1. The default setting is SAT.
2. The default is CVBS.
3. The default of TV aspect ratio is 4:3. Use ◀ / ▶ keys to choose between 4:3 and 16:9.
4. AUTO and PAL are TV specs. The default of TV System is Auto. Use ◀ / ▶ keys to choose between AUTO and PAL.

Please refer to your TV specification while

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choosing TV system.

Press **OK** to save and return to Settings; press **EXIT** to leave TV Format without any change.

Help messages:

| | |
|------------------------|---|
| Video Mode | Press left/right arrow key to select VCR Mode. |
| SCART Signal | Press left/right arrow key to select SCART signal format. |
| TV Aspect Ratio | Press left/right arrow key to select TV aspect ratio. |
| TV System | Press left/right arrow key to select your TV system. |

NOTES: When switch to VCR mode, the display screen located at the front panel will show "--AV-VCR--". To return to Satellite Program Display, press EXIT.

5. Soundtrack Option

Select audio language for programme watching in 1st and 2nd Soundtrack Options. The selected languages, 1st Soundtrack Options priority, will be picked to access the audio language of the programme watching. If the programme does not support the selected language of 1st Soundtrack Options, the language of 2nd Soundtrack Options will be used.

Soundtrack Option



Help message:

Press "OK" to select your 1st/2nd Soundtrack.

The sub-menu looks like diagram below:

1st Soundtrack Option



Help message:

Press left arrow key to select 1st language. Press "OK" to finish setting.

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2nd Soundtrack Option



Help message:

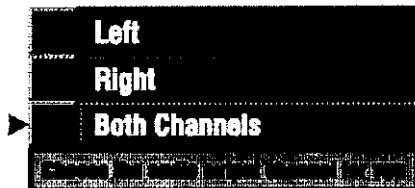
Press left arrow key to select 2nd language. Press "OK" to finish setting.

NOTES: The default setting is "Not Used." If the soundtrack of a program does not match the chosen soundtracks or 1st and 2nd Soundtracks are set as "Not Used", IRD will automatically play the 1st audio PID language of the program.

6. Audio Output Option

Choose the audio output channel for your box.

Audio Output Option



> By pressing ▲ key alone will switch the audio output to Both Channels (Stereo), Left, or Right. It is a one-touch hot key that would keep you out of the hassle of getting into layers of menus.

NOTES: The default is Both Channels. Decode selected channel and play it on both channel outputs

Program Manager

Program Manager is a very useful tool to sort channels alphabetically or by personal preference.

Program Manager



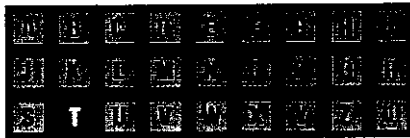
Help message:

| | |
|-----------------------------------|--|
| Alphabetic Channel Sorting | Press "OK" to sort channels by alphabetical order. |
| Change Category Lists | Press "OK" to change category lists in Guide menu. |

1. Alphabetic Channel Sorting

This convenient tool is very useful to sort out immediate channels alphabetically.

Alphabetic Channel Sorting



| | | | |
|-----|--------|-----|------|
| 002 | TVBS | 014 | TTV |
| 005 | TVIS | 035 | TTVS |
| 016 | TVBS-G | 078 | TNT1 |

Use ◀ / ▶ key to move around the alphabets. And use ▲ / ▼ key to scroll the programmes at the lower level of the menu.

Help message:

Press left/right key to select an alphabetic for channel sorting & up/down key for scrolling up/down the channel list. Press "OK" to select a channel.

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➤ ▶ key is a one-touch hot key to display All Channels menu when you are not accessing menu setting.

| TV[All Channels] | |
|------------------|----------|
| 001 | HENAN |
| 002 | MainN |
| 003 | Fujian |
| 004 | 🔒 JX SAT |
| 005 | LNTV ma |
| 006 | GDTV ma |

Key is locked programme →

Lock is scrambled programme →

Use ▲ / ▼ key to scroll the highlight bar up and down for channel selection. And ◀ / ▶ key to scroll page up and down. Press **OK** key to display the channel.

2. Change Catagory Lists

It is currently not functioning in this model.

Favourite Channels Group

The function of this menu is to group in favourite channels by personal preference.

> ◀ key is a one-touch hot key to select Favorite Groups. (e.g. All Channels, Carol, Rebecca or Gary) It functions when you are not accessing the OSD menu.

Favorite Channels Group

| | |
|-----------|--------------|
| Add | 1: Carol |
| Edit | 2: Rebecca |
| Delete | 3: Gary |
| Selection | All Channels |

Use ▲ / ▼ key to choose between left side of the menu. Then press **OK** to get into the right side of the menu.



NOTES: User has 9 out of 10 spaces to fill in the Favorite Channels Group. There should be a block namely "All channels" which cannot be deleted. The default is All Channels.

Help message of level 1 (left side):

| | |
|------------------|---|
| Add | Press "OK" to add a new group. |
| Edit | Press "OK" to edit an existing group. |
| Delete | Press "OK" to delete an existing group. |
| Selection | Press "OK" to choose your favorite group. |

Help message of level 2 (right side):

| | |
|------------------|---|
| Add | Move your cursor by using right/left arrow key, input group name by using up/down key. Press "OK" and then choose your favorite channels. |
| Edit | Choose one group. Press "OK" and then edit your favorite channels. |
| Delete | Choose one group. Press "OK" and then delete your favorite channels group. |
| Selection | Choose one group. Press "OK" to set your favorite channels. |

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Organizing Channels

This menu is to use for switching the channels' number (changing the sequence of channels). For example, we want to switch TVBS from channel 1 to channel 2 and CNN to channel 1. The first step is to choose the source channel. In this case, the source channel is TVBS.

Organizing Channels

| | | | |
|-----|--------|-----|---------|
| 001 | TVBS | 007 | Star TV |
| 002 | CNN | 008 | A&E |
| 003 | ABC | 009 | TTV |
| 004 | TVIS | 010 | HBO |
| 005 | TVBS-G | 011 | TNT1 |
| 006 | CTS | 012 | MCM |

Move the highlight bar to 002 with ▲ / ▼ key and press ◀ key to select TVBS.

Help message:

Press left arrow key to choose one channel you want to move.

Then use ▲ / ▼ key to drag the channel name (TVBS) around the menu.

Organizing Channels

| | | | |
|-----|--------|-----|---------|
| 001 | CNN | 007 | Star TV |
| 002 | TVBS | 008 | A&E |
| 003 | ABC | 009 | TTV |
| 004 | TVIS | 010 | HBO |
| 005 | TVBS-G | 011 | TNT1 |
| 006 | CTS | 012 | MCM |

When the blinking channel is moved to the place where you want to switch to, in this case is 002, the selected channel is replaced by the blinking original channel.

Press ◀ key to interchange between these two channels. Or press ▶ key to cancel. Move the highlight bar to 002 section where CNN is and press ◀ key to switch these two channels.

To return to default setting:

Press left arrow key to return to default settings.

If "Default setting" is chosen, the help message shows up and will ask user to confirm default setting.

Press **OK** to choose/confirm default settings.

Install Methods

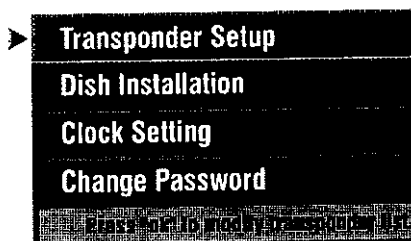
First, you will be asked to input password.

Please Enter Password



Use number keys (0-9) to key in password.
The default is 0000.

Installation



Use ▲ / ▼ key to move between the menu.
Press **OK** to get into sub-menu.

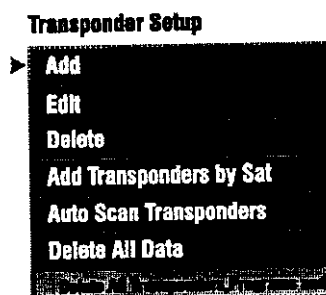
Help messages:

| | |
|-------------------|---|
| Transponder Setup | Press "OK" to modify transponder list. |
| Dish Installation | Press "OK" to install your dish position. |
| Clock Setting | Press "OK" to set the receiver's clock. |
| Change Password | Press "OK" to change the password |

NOTES: Clock Setting is not functioning in this model.

1. Transponder Setup

The first option of **Install Methods** comes in the form of **Transponder Menu** dialog box. The menu offers Add, Edit, Delete, Add Transponders by Sat, Auto Scan Transponders and Delete All Data options.



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Help messages:

| | |
|--------------------------------|---|
| Add | Add a new transponder. |
| Edit | Edit the existing transponders. |
| Delete | Delete a transponder. |
| Add Transponders by Sat | Add new transponder by selecting satellite |
| Auto Scan Transponders | Scan multiple transponders |
| Delete All Data | Delete all transponders, programs and settings. |

- **Add**

After choosing the **Add** option from the **Transponder Setup**, use ▲ / ▼ keys to move up and down through the menu options.

The sub-menu of “Add” is shown as below.

| | |
|---------------------|------------|
| Add | |
| LNB Frequency (KHz) | 05150000 |
| Transponder (KHz) | 06000000 |
| Symbol Rate (KBaud) | 06000 |
| Polarization | Horizontal |
| 22KHz | Off |
| 12V | Off |

Use number keys (0-9) to key in values of LNB Frequency, Transponder Frequency and Symbol rate. And use ◀ / ▶ keys to move the unit position.

Use ▲ / ▼ s to move around rows.

Use ◀ / ▶ keys to switch between vertical and horizontal for Polarization. To switch between ON/OFF for 22KHz and 12V, use ◀ / ▶ keys.

Help messages:

| | |
|-----------------------------|---|
| LNB Frequency (KHz) | Input the frequency from the number keys, press “OK” to finish setting. |
| Transponder (KHz) | Input the frequency from the number keys, press “OK” to finish setting. |
| Symbol Rate (K Baud) | Input the symbol rate from the number keys, press “OK” to finish setting. |
| Polarization | Press left/right arrow keys to choose polarization, press “OK” to finish setting. |

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| | |
|--------|---|
| 22 KHz | Press left/right arrow keys to toggle 22Khz On/Off. |
| 12 V | Press left/right arrow keys to toggle 12V On/Off. |

- **Edit**

After choosing **Edit** option from the **Transponder Setup**, use ▲ / ▼ keys to move up and down through the menu options.

Edit

| Network | LNB Freq | Xpr Freq | Symbol | Pol | 22KHz |
|---------|----------|----------|--------|-----|-------|
| 01 CHN | 05150000 | 03713000 | 04000 | H | Off |
| 02 ABC | 05150000 | 03000000 | 04000 | H | Off |
| 03 TVBS | 05150000 | 04000000 | 08000 | H | Off |

The Edit menu will only list the information for the first three transponders. Each string of information contains the details of Network name, LNB freq., Transponder freq., Symbol rate, Polarization and 22KHz.

Edn

| | |
|---------------------|------------|
| LNB Frequency (KHz) | 05150000 |
| Transponder (KHz) | 03713000 |
| Symbol Rate (KBaud) | 04000 |
| Polarization | Horizontal |
| 22KHz | Off |
| 12V | Off |

Use ▲ / ▼ key to check the other information in the list. And choose a particular transponder and press **OK** key. The editing dialog box appears that will allow you to modify the information.

After you choose a transponder, you will see the sub-menu as shown on the left.

Use number keys (0-9) to key in values of LNB Frequency, Transponder Frequency and Symbol rate. And use ◀ / ▶ keys to move the unit position.

Use ▲ / ▼ keys to move around rows.

Use ◀ / ▶ keys to switch between vertical and horizontal for Polarization. To switch between ON/OFF for 22Khz and 12V, use ◀ / ▶ keys.

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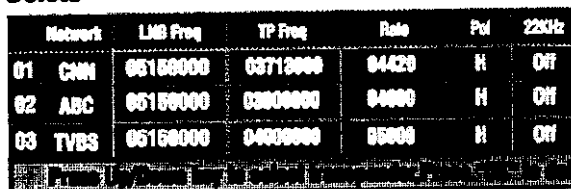
Help message:

| | |
|---------------------|---|
| LNB Frequency (KHz) | Input the frequency from the number keys, press "OK" to finish setting. |
| Transponder (KHz) | Input the frequency from the number keys, press "OK" to finish setting. |
| Symbol Rate (KBaud) | Input the symbol rate from the number keys, press "OK" to finish setting. |
| Polarization | Press left/right arrow keys to choose polarization, press "OK" to finish setting. |
| 22 KHz | Press left/right arrow keys to toggle 22KHz On/Off. |
| 12 V | Press left/right arrow keys to toggle 12V On/Off. |

- **Delete**

After choosing **Delete** option from the **Transponder Setup**, use ▲ / ▼ keys to move up and down through the menu options.

Delete



| Network | LNB Freq | TP Freq | Rate | Pol | 22KHz |
|---------|----------|----------|-------|-----|-------|
| 01 CNN | 05150000 | 03710000 | 04420 | H | Off |
| 02 ABC | 05150000 | 03800000 | 04000 | H | Off |
| 03 TVBS | 05150000 | 04000000 | 05000 | H | Off |

The **Delete** menu will list only the information for the first three transponders. Each string of information contains the details of Network name, LNB, Transponder freq., Symbol rate, Polarization and 22KHz. Use ▼ key to check the other information in the list. And choose a particular transponder and press **OK** key.

Then you will have to confirm whether to delete the selected information or not.

Help message:

Choose a transponder you want to delete by using left/right keys. And then press "OK".

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After the transponder is selected, the sub-menu is shown as below.

Delete

| | |
|---------------------|------------|
| LNB Frequency (KHz) | 05150000 |
| Transponder (KHz) | 03713000 |
| Symbol Rate (KBaud) | 84420 |
| Polarization | Horizontal |
| 22KHz | Off |
| 12V | Off |

Move the cursor to “Yes” and press OK to confirm the deletion. Move the cursor to “No” and press OK to cancel the deletion. Press **EXIT** key anytime to cancel the deletion.

- **Add Transponders by Sat**

It is a preset data of all satellites.

1st level menu: Use ◀ key to select/deselect a transponder. Scan TPs is a default setting. Its function is to scan over the selected transponders.

Add Transponders by Satellite

Eye to select →

| | |
|-------------------|-------------------|
| 001 Asiasat2-H(C) | 007 HotBird234(H) |
| 002 Asiasat2-V(C) | 008 HotBird234(V) |
| 003 Asiasat2(Ku) | 009 NileSat101 |
| 004 PAS 2-H/V(C) | 010 |
| 005 PAS 2 (Ku) | 011 |
| 006 PAS 4-H/V(C) | 012 Scan TPs |

2nd level menu: Select a number (0-9) in which its LNB Frequency is corresponding to your satellite’s by using ◀ / ▶ keys.

Select LNB Frequency (GHz) FOR Asiasat2-H(C)

1)5.150 2)9.750 3) 10.000 4)10.600 5)10.750
6)11.000 7) 11.250 8) 11.300 9) 11.475

1 2 3 4 5 6 7 8 9

3rd level menu: The default setting of 22KHz is NO. Use ◀ / ▶ keys to switch around Yes/No.

TURN ON 22KHz for Transponders in Asiasat2-H(C)?

Yes **No**

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4th level menu: The default setting of 12V is NO. Use ◀ / ▶ keys to switch between Yes/No.



5th level menu: Displays the transponders of all selected satellites.

Use ▲ / ▼ keys to scroll the highlight bar up and down. Press ◀ key to select/deselect a transponder. Use ▶ key to edit values of transponder. (e.g. LNB, Symbol Rate, Polarization, 22KHz and 12V)

Select Transponders

| No | Name | LNB | TP | Rate | Pol | 22K | 12V |
|----|----------|-------|-------|-------|-----|-----|-----|
| 01 | Asiasat2 | 05100 | 03700 | 04410 | H | Off | On |
| 02 | Asiasat2 | 05100 | 03710 | 04410 | H | Off | On |
| 03 | Asiasat2 | 05100 | 03720 | 04410 | H | Off | On |
| 04 | Asiasat2 | 05100 | 03727 | 04410 | H | Off | On |
| 05 | Asiasat2 | 05100 | 03734 | 04410 | H | Off | On |

After above 5 menus were set, the box will automatically save the data. Count 10.

Saving Data.....Please Wait! 10

If Scan TPs was selected in the **Add Transponders by Sat** menu, the 1st level menu, Scan Transponders menu will be shown as below.

Scan Transponders

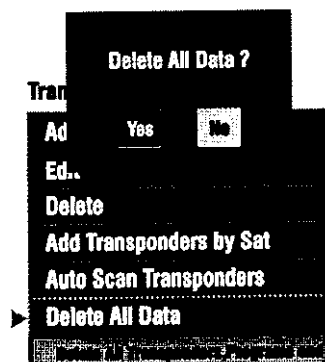
| No | Name | LNB | TP | Rate | Pol | 22K | 12V |
|----|----------|-------|-------|-------|-----|-----|-----|
| 01 | Asiasat2 | 05100 | 03700 | 04410 | H | Off | On |
| 02 | Asiasat2 | 05100 | 03710 | 04410 | H | Off | On |
| 03 | Asiasat2 | 05100 | 03720 | 04410 | H | Off | On |
| 04 | Asiasat2 | 05100 | 03727 | 04410 | H | Off | On |
| 05 | Asiasat2 | 05100 | 03734 | 04410 | H | Off | On |

Use ▲ / ▼ keys to scroll the highlight bar up and down. Press ◀ key to select/deselect a transponder for transponder scanning.

The corresponding channels of any deselected transponder will not appear in any channel related menus. In short, you need to scan transponders first in order to watch channels.

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- **Delete All Data**



You will be asked to confirm Delete All Data. The default setting is NO. If you want to delete all data, use ◀ / ▶ keys to choose Yes.

2. Dish Installation

This menu is to adjust satellite dish position.

Dish Installation



The default setting of LNB Power is ON.



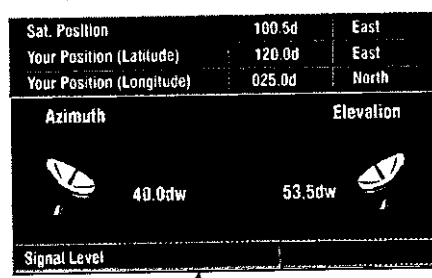
Help messages:

| | |
|-----------------|--|
| LNB Power | Press left/right arrow key to turn ON/OFF LNB power, press "OK" to finish setting. |
| Dish adjustment | Press "OK" to adjust your dish. |

- **Dish Adjustment**

The menu is to compute the Azimuth and Elevation using the Sat-Position and your position when setting your dish.

Dish Adjustment



Use number keys (0-9) to key in the degree of Sat. Position and your position.

And use ◀ / ▶ to switch between the East/West, North/South setting. Use ▲ / ▼ keys to move around rows.

3. Clock Setting

It is currently not functioning in this model.

4. Change password

Step 1:

Change Password



A screenshot of a screen titled "Change Password". It shows a text input field labeled "Input old password" with the text "XXXX" entered. Below the input field is a numeric keypad.

Everytime user changes the IRD password, he/she will be asked to key in old password.

Step 2:

Change Password



A screenshot of a screen titled "Change Password". It shows a text input field labeled "Input new password" with the text "XXXX" entered. Below the input field is a numeric keypad.

If the correct password is keyed in, user will be asked to key in new password.

Step 3:

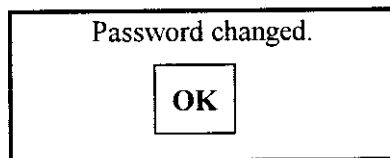
Change Password



A screenshot of a screen titled "Change Password". It shows a text input field labeled "Confirm password" with the text "XXXX" entered. Below the input field is a numeric keypad.

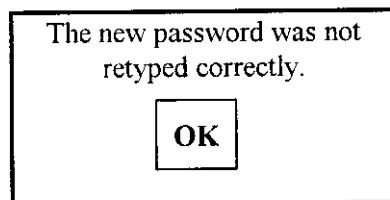
If the new password is pressed, the IRD will ask user to confirm this setting.

Step 4: If password is successfully changed, you will get a confirmation.



A dialog box with a black border. It contains the text "Password changed." centered at the top. Below the text is a square button with the text "OK" centered inside it.

Step 5: If new password is not typed in correctly, you will be informed.



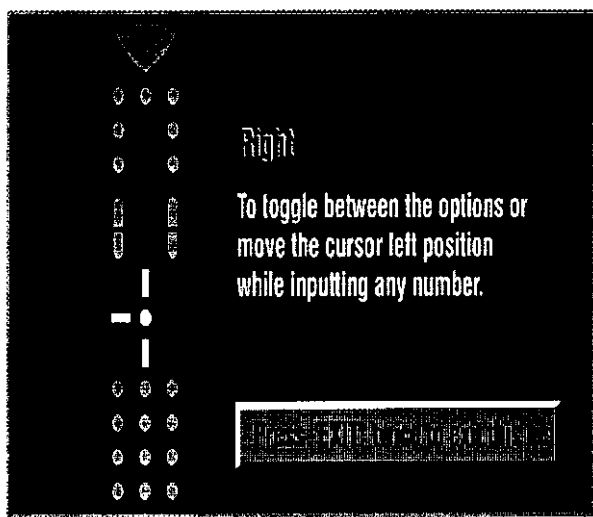
A dialog box with a black border. It contains the text "The new password was not retyped correctly." centered at the top. Below the text is a square button with the text "OK" centered inside it.

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Remote Control Help

You may press any key on remote controll to show descriptions.

Remote Control Help



Message 2: Press "EXIT" twice to exit this help menu.

All the messages are:

| | |
|-----------------|---|
| POWER | To put IRD into standby or take it out of standby mode. |
| TV/RADIO | To switch between TV and radio programs. |
| INFO | To display information about current program. |
| MENU | To display the main menu. |
| EXIT | To remove a menu or other information from the screen. In the case of menus, the preceding menu is displayed. |
| ▲ Up | To move the highlighting up the menu. |
| ▼ Down | To move the highlighting down the menu. |
| ◀ Left | To toggle between the options or move the cursor left position while inputting any number. |
| ▶ Right | To toggle between the options or move the cursor right position while inputting any number. |
| OK | To confirm your selection and move forward to the next menu, or to confirm your adjustments and return to the preceding menu. |

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| | |
|--------------------------|--|
| Number keys (0-9) | To select different channels or input numbers |
| Recall | To return to the previous satellite service you were watching or listening |
| Mute | To mute the sound. |
| Volume Up | To increase the volume. |
| Volume Down | To decrease the volume. |
| Channel Up | To view or listen to the next satellite service. |
| Channel Down | To view or listen to the preceding satellite service. |

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Trouble-shooting

| Problem | Possible causes | What to do |
|--|---|---|
| Display on front panel does not light up/ is not lit | Power cord is not connected | Check that the power cord is plugged into the power socket |
| No sound or picture | Satellite dish not pointing at satellite | <ul style="list-style-type: none"> • Adjust the dish • Ask for technician |
| | Polarization wrongly set | Change the polarization |
| | Channel (radio channel only have audio) | <ul style="list-style-type: none"> • Change channel • Get channel information by pressing INFO button |
| | No signal or weak signal | <ul style="list-style-type: none"> • Check cable connections, LNB and other equipment connected between LNB and receiver • The interruptive signal may be caused by bad weather • Ask for technician |
| | No power supply to the LNB | <ul style="list-style-type: none"> • Check 13/18 V from receiver through cable to LNB • Ask for technician |
| | The LNB is faulty | <ul style="list-style-type: none"> • Replace the LNB • Ask for technician |
| | Transponder settings error | Check freq. table for correct settings |
| Remote control not working | Battery exhausted | Change battery (two AAA batteries) |
| | Fluorescent light interfering with remote control | Switch off the light |
| | Remote control wrongly aimed | Aim the remote control unit at the receiver |
| No active video | | <ul style="list-style-type: none"> • Unplug the power cord and replug it into the wall outlet. • Push POWER standby key to turn the power Off and back On. |

** If you still cannot solve the problem, please contact your dealer.*

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Specifications

| Video | |
|-------------------|----------------------------------|
| Decoding | MPEG-2 & MPEG-1 Compatible |
| Bit rate | Max. 15 Mbps |
| Output | NTSC/PAL (Auto) |
| Aspect Ratio | 16:9, 4:3 |
| Active Pixel | 720 x 480@30fps; 720 x 576@25fps |
| Output Connector | RCA, S-VHS, SCART |
| Audio | |
| Decoding | MPEG-2/MPEG-1 Layer I & II |
| Mode | Mono, Dual, Stereo, Joint stereo |
| Bit rate | Max. 384 Kbps |
| Demodulator | |
| Demodulation | QPSK |
| Symbol rate | 2-45Mbd |
| Outer code | RS (204, 188, 8) |
| Inner code | All DVB rates |
| Energy dispersion | DVB-S recommendation |
| Input Signal | |
| Frequency | 950MHz to 2150MHz |
| Input level | -25dBm ~ -65dBm |
| Channel bandwidth | 55MHz |
| Input socket | F-type connector |
| LNB Control | |

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| | |
|---------------------------|--|
| Power supply | 13/18V (400mA max.) polarization with short circuit protection |
| Polarized control | 13/18V polarization switching (vertical/horizontal) |
| Remodulator | Connector Type: Plug, IEC169-2 male TV System: PAL-G |
| Band switch | 22Khz tone control |
| LNB Switch | 0/12 volt control |
| Miscellaneous | |
| User interface | Favorite Channels, Program Information |
| Supply voltage | 90-264 VAC, 47-63Hz |
| Power consumption | 25 Watts max. |
| Dimensions (W x D x H) | 360mm x 251.4mm x 60mm |
| Operation temperature | +5°C to +40°C |
| Storage temperature | -20°C to +70°C |

** The above specifications are subject to change without notice.*

Press **OK** key to confirm the transponders going to be scanned. You may press **EXIT** to abort searching.

Searching [1] : 3706000 4418, Press "EXIT" to abort

Next, the box will automatically save the data.

Saving Data....Please Wait! 10

• Auto Scan Transponders

Its function is basically the same as latter part of **Add Transponders by Sat** menu. If you are not adding any new transponder from satellites but prefer to scan over the transponders, you may skip **Add Transponders by Sat** menu and directly select **Scan Transponders** in Transponder Setup menu.

Scan Transponders

| No | Name | LNB | TP | Freq | PL | 22K | 12V |
|----|----------|-------|-------|-------|----|-----|-----|
| 01 | AutoScan | 05180 | 03706 | 04418 | N | ON | ON |
| 02 | AutoScan | 05180 | 03718 | 04418 | N | ON | ON |
| 03 | AutoScan | 05180 | 03720 | 04418 | N | ON | ON |
| 04 | AutoScan | 05180 | 03727 | 04418 | N | ON | ON |
| 05 | AutoScan | 05180 | 03734 | 04418 | N | ON | ON |

Use **▲ / ▼** keys to scroll the highlight bar up and down. Press **▶** key to select/deselect a transponder for transponder scanning. The corresponding channels of any deselected transponder will not appear in any channel related menus. In short, you need to scan transponders first in order to watch channels. Press **OK** key to confirm the selected transponders and start scanning. You may press **EXIT** to abort.

Searching [1] : 3706000 4418, Press "EXIT" to abort

Next, the box will automatically save the data.

Saving Data....Please Wait! 10

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Glossary terms

| | |
|------------------------------|---|
| LNB or LNBF | (Low-noise block converter) The LNB is an electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by the satellite receiver. |
| NTSC | (National Television Standards Committee) A broadcast standard developed and established in the USA which is also used in Japan. |
| PAL | (Phase Alternating Line) Transmission standard for TV signals used for conventional and satellite broadcasting. |
| Polarization | Polarization allows two signals to use the same frequency band. The signals from a satellite are transmitted either with linear (vertical or horizontal) polarization or circular (right or left) polarization. |
| Transponder frequency | The carrier frequency for incoming signal from satellite. |
| Symbol rate | Number of symbols transmitted per second. |
| 22 KHz | The band selection signal used in Ku band LNB. |
| 0/12 Volt | The LNB switch control signal used for two LNB switch box. |