FCC ID:PZ8PANSAT330A Report No: E01.1105.FCC.451N Test Date: February 18~21, 2002

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DiSEqC is a trademark of EUTELSAT.

Introduction

1

1.1 Overview

This satellite receiver is designed for using digital free-to-air channel reception. Enjoy the rich choice of more than 4,000 different channels, broadcasting a large range of culture, sports, cinema, news, events, etc. This receiver is a technical masterpiece, assembled with the highest qualified electronic parts.

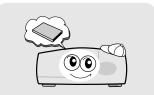
1.2 Main Features

- ▶ Fully compliant with MPEG-2 and DVB standards
- ▶ User friendly operating Menu and On-Screen Graphic Menu
- ► Easy to use EPG(Electronic Program Guide) on screen
- ► Age protection lock function
- ▶ Tele-text encoding
- ▶ Manual PID control
- ▶ Software downloading via RS-232C connector
- ▶ DiSEqC 1.2 compatible

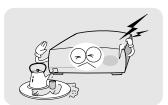
Safety/Precaution

2.1 Safety

Be sure to read the user's manual before starting the operation of the unit



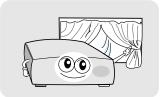
Do not touch the power cord with wet hands as it may cause electric shock.



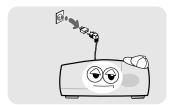
Never open the cover. It is very dangerous to touch the inside of the unit due to possible electric shock.



Place the unit in a well ventilated and no-heat environment.

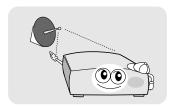


When you do not use this unit for a long time, make sure that power cord is pulled out from the outlet. Also do not use a damaged power cord as it may cause fire or electric shock.



A professional installation is required.

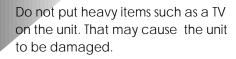
If reception is interrupted, contact your local service centre.

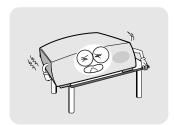


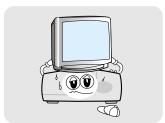
2.2 Precautions

When installing the unit

Install the unit horizontally. An uneven installation may cause the unit to be damaged.





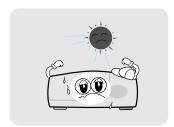


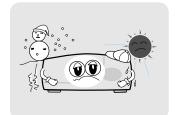
Do not install the unit:

- Where it is subject to vibrations
- Where it is exposed to direct sunlight
- Where there is humidity
- Where the temperature is too high or too low.
- Where there is no ventilation

Moving the unit to a hot area from a cold one will cause condensation.

Do not operate the unit for one or two hours or until it has dried completely.

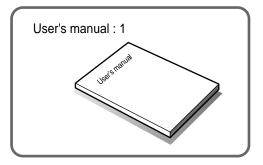




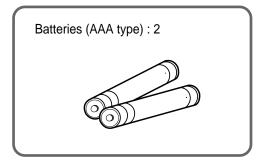
Check Points before Use

3.1 Accessories

Accessories of the Unit







If any accessories listed above are missing, contact the sales representative where you purchased this unit.

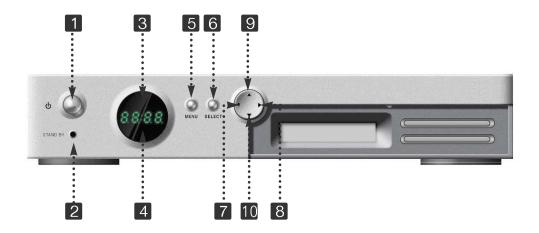
3.2 The Satellite dish

Your dish should be properly installed and azimuth and elevation must be precisely set up.

▶ This unit is working with DiSEqC 1.2 on a compatible antenna positioner. Ask your dealer for information.

Controls/Functions

4.1 Front Panel



1 Power

To switch the receiver in "standby" mode or in power on mode.

2 Standby/Power on Indication light

Turn on red while in the "standby" mode and turn off the red light while in the power on mode.

3 Remote Sensor

Receives the infrared signal from remote control.

4 Channel Display(4 Digit)

- When you connect the power line of the receiver, the current time is displayed.
- After programming, the program number is displayed.

5 Menu

To launch or terminate the menu application.

6 Select

To activate a highlighted item or go to next level on hypertext menu or confirm the user's action.

4.1 Front Panel

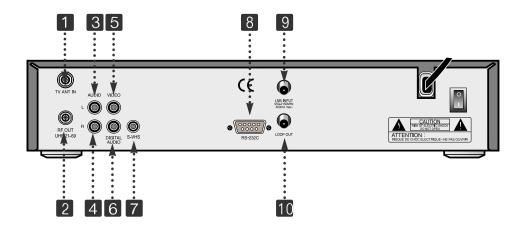
7 - 8 Vol. (**◄/▶**)

To adjust the volume level or change the value of an item with preprogrammed values. The Key Vol. ← can be used as a backspace to cancel the numerical input.

9 - 10 CH. (▲/▼)

To change channel or cursor position on the application screen.

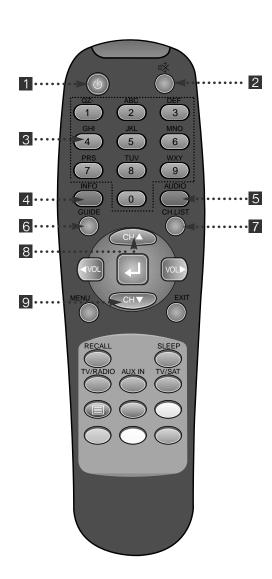
4.2 Rear Panel



No.	Name	Connector	Function
1.	1. TV ANT IN IEC 169-2 female Input from terrestrial antenn		Input from terrestrial antenna.
2.	2. RF OUT UHF 3-4 IEC 169-2 male Output to TV.		Output to TV.
3. AUDIO L RCA cinch Left audio output.		Left audio output.	
4.	AUDIO R	RCA cinch	Right audio output.
5.	VIDEO	RCA cinch	Composite video output.
6.	Digital Audio	RCA cinch	Digital Audio Output
7.	S-VHS		Output to VCR or TV.
8.	RS-232C	DB-9	Low speed serial port.
9.	LNB INPUT	IEC 169-24 female	IF input from LNB to digital tuner.
10.	LOOP OUT	IEC 169-24 female	IF loop-through output from
			digital tuner.

8

4.3 Remote Control



1 POWER:

To switch into 'standby' or 'power on' mode.

2 MUTE:

To turn the sound on/off.

3 Numeric Keys(0-9):

To select channels and input of channel numbers or characters.

4 INFO.:

To display the information of the current channel.

5 AUDIO:

To change the audio track, stereomono mode.

6 GUIDE:

(EPG: Electronic Program Guide)To watch program information. Press

once more to return to normal mode.

7 CH LIST:

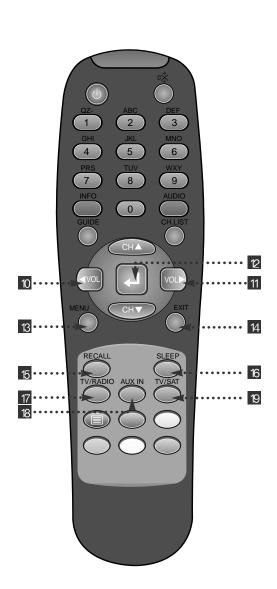
To watch the channel list.

Press to confirm or press EXIT to return to previous chosen channel.

8 - 9 Up (HA) & Down (CHT) :

To change the value of a selected item with preprogrammed values in menu.

4.3 Remote Control



10 - 11 Left (vol & Right (vol :

To move the cursor up and down in menu

acan be used as a backspace to cancel the numerical input.

12 (ENTER) :

To select an item or to confirm a menu. Pause function.

13 MENU :

To enter/exit the main menu.

14 EXIT :

To return to previous status or menu.

15 RECALL:

To return to the previous chosen channel.

16 SLEEP:

To switch off the receiver automatically after between 30 and 150 minutes.

17 TV/RADIO:

To switch between the TV and radio channels.

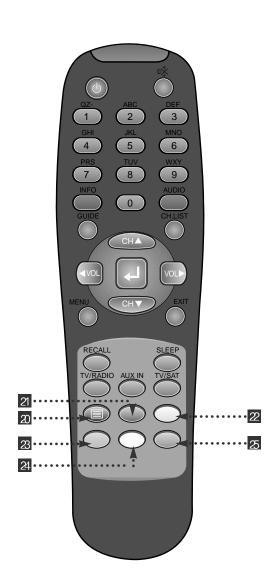
18 AUX IN:

To select the output mode of scart connector. If your receiver has no SCART in the rear panel, this key may not work.

19 TV/SAT:

To toggle the TV output source between the satellite input and UHF/VHF antenna input. If your receiver has no 'TV ANT IN' terminal in the rear panel, this key may not work.

4.3 Remote Control



20 BLUE :

To delete a channel from the Channel List menu.

To show extended program information in the EPG menu.

To see Teletext Service Data.

21 IVORY:

To add a new channel to the Channel List menu.

22 ORANGE:

To see variant channel lists for user's convenience in the Channel List menu.

23 RED :

To setup favorite channel lists in the Channel List menu.

24 GREEN:

To lock channel in the Channel List menu.

To show current/next program information in the EPG menu.

25 YELLOW:

To move a channel to other position in the Channel List menu.

To show program schedule information in the EPG menu.

Using the Remote Control

5.1 Batteries

▶ How to insert a battery

- Open the cover at the top of the rear side of the remote control.
- 2 Insert two AAA type batteries(1.5 V) to be aligned with appropriate +/- polarity.
- 3 Close the cover completely.

▶ When to replace a battery

If the operational range of remote control is getting smaller, it indicates batteries are almost consumed.

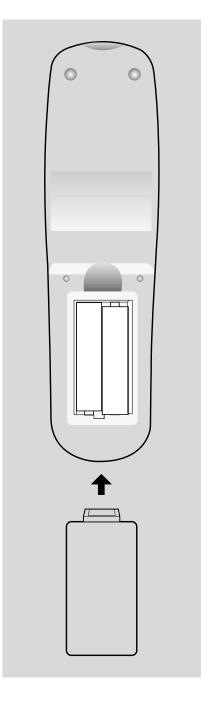
Replace both batteries together.

▶ How to replace a battery

- Check +/- polarities and insert batteries to be aligned with appropriate +/polarity.
- Even if old and new batteries are the same in size, do not use batteries with different characteristics.

▶ Accident prevention

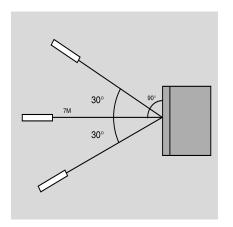
- Do not recharge, heat or disassemble the battery. Do not cross +/- polarities.
- If remote controller is not going to be used for a long time, take the batteries out.

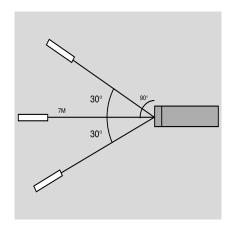


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5.2 Range of Operation

- The remote controller can be detected by the receiver within an angle of 30 degrees to the left or right.
- 2 The transmission distance of the remote control is 7m in direct line of sight.





* Notes

• When the remote control is not operative

Replace batteries with new ones and check AC power plug on the receiver.

Abnormal operation

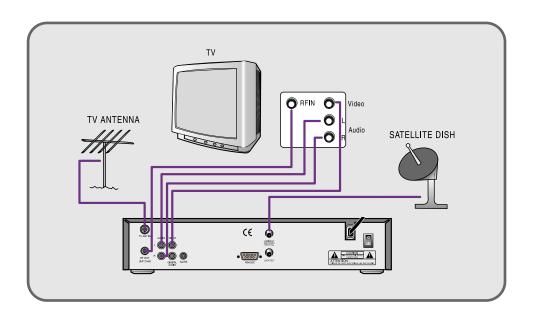
Disturbance from peripheral devices might occur. Ensure that other products which might cause interference are placed further away from the receiver.

Notes for handling

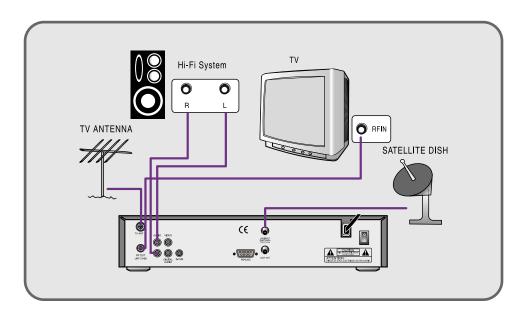
If exposed to heat or water, the main body and the remote control may be damaged, so be careful.

How to Connect

6.1 When Connecting IRD to TV with RF, AV connectors

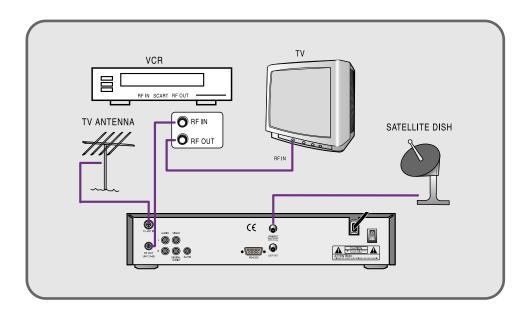


6.2 When Connecting IRD to Hi-Fi system and TV with RF



6

6.3 When Connecting IRD to VCR and TV



After your receiver is powered up, proceed with installation as follows:

1 Menu Language Setting

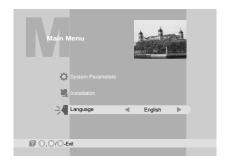
• When you plug in AC power, the following will be displayed on the front.

2 Press **POWER** on remocon, the LED number will be displayed as follows;



- **3** Press **MENU** key and position cursor on **'Language'** column with or .
- 4 Select language you want with or or .

Screen



* Note: Languages displayed in 'Language' column are supported by your receiver.

7

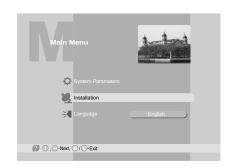
7.1 Getting Started



If you want to know how to use current part in the menu, use 'help' function.

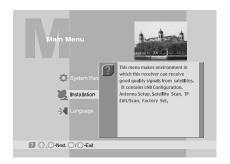
Select a content in the menu.
 For example, if you want to know about the installation menu, select installation.

Screen



2 Press **INFO**. Then you can see the help window of the selected content.

Screen



3 Satellite Setting

Since your receiver has the basic data of most satellites and channels, you can receive programs just by plugging in. But, according to the status of your antenna setup, you may have to modify the basic data of satellites and / or channels.

When you need to modify the data, proceed as follows;



• Press **MENU** key and position the cursor on Installation column with or and press .

Screen



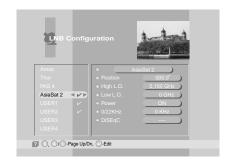
2 By using or , select 'LNB Configuration' and press .

Screen



- * Note: Enter 4-Digit password if need arise.

 The default password is '0000'
- Select the Satellite you want to add with or or and press or





If you press, the selected Satellite will be added and the cursor will move to right window for detailed installation.	
* Note: If you just want to edit the data of the satellite which is already cotained in the receiver, press after you select the satellite.	n-

- Select item you want to edit with or or and change each parameter.
 - Position : When necessary, set the position(longitude) of the satellite with the numeric keys.
 - High L.O. / Low L.O. : Enter LNB oscillator frequency with numeric keys.
 - Power: Set LNB power ON or OFF with or or .

 If you set LNB type Ocs C-band you can set power ON, 14V, 18V or OFF.
 - 0/22KHz : Set the path of 0/22KHz switch box with \bigcirc or \bigcirc .
 - DiseqC : Set the feature of DiSEqC box by pressing . If you do not use the switch box, set as "---".
 - * Note: When you change each parameter, you need to know exact parameter of LNB to modify L.O.(local oscillator) frequency.
 - * Note: When you change each parameter, you need to understand environment of connecting the receiver and antenna in order for you to set 22KHz and DiSEqC properly.
- - * Note: Press ① ① for space.
- ♠ After the installation procedure, press EXIT key or MENU key to store your entered data.

7

7.1 Getting Started



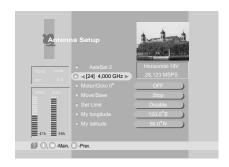
You need to position your antenna correctly for reception of the best signal.

- 1 Press MENU key.

Screen



3 Select 'Antenna Setup' with on or and press .



Level	Indicating selected satellite signal strength lev	
Quality	Indicating signal to noise ratio	

- 4 Select the satellite you want with on or .
- **6** Press to move to TP section and select the TP you want with or or .
- **6** When the satellite and the TP are selected, you can check the reception status of the satellite signal. If the reception signal status is bad, adjust antenna to get the following result.

Tuner	Lock
FEC	1/2, 2/3, 3/4, 5/6 or 7/8
Level	over 30%
Quality	over 10%

DiseqC 1.2 Positioner Setting

If you want to use an antenna positioner compatible with DiSEqC 1.2, please do the following:

- Motor / Goto 0

Determine the kind of Motor & whether or not controlling it by using or Vol.



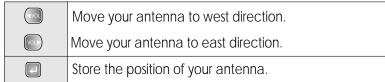
On	Using DiSEqC Motor.
Off	Not using DiSEqC Motor.
STAB	Using the specific Motor supplied by Stab company. Determine the longitude of the satellite on LNB Configuration Menu. If the longitude of the satellite on LNB Configuration Menu is set, user must input the longitude about your position at present

If you press , DiSEqc Motor will move toward Zero Equator.

- Move / Save : Select West/East direction with on or .







- Set Limit : Select limit of your antenna movement to east/west direction and press .
- * Note: This may be necessary to protect your antenna from any possible collision between your antenna and certain obstacles nearby it.
 - My longitude / My latitude

You can use this item when STAB is set on 'Motor/Goto 0'.

Determine your longitude & latitude at present.

'East/West' is changed by using or or.





After finishing 'Antenna Setup', execute a 'Satellite Scan'.

Then you can get all channels in the pre-programmed TPs

Then you can get all channels in the pre-programmed TPs. This function can also be used to get the latest channel data while receiver is in use. Through this function, the receiver searches for all the available channels and saves them in the memory.

- 1 Press MENU key.
- **2** Select 'Installation' with or or , and press .
- Select 'Satellite Scan' with on or , and press .

Screen



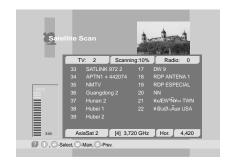
- 4 Select 'Scan Mode' with or .
- **6** Select the scan mode you want with or .
- **6** Select the satellite name you want with **9** or **1**.



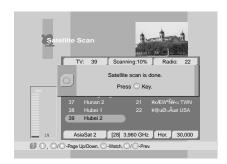


⊘ If you press **□**, the selected satellites will be scanned.

Screen



(a) While scanning, you can see the following menu on the screen.



- After the scanning process, the first channel of the last scanned TP will be displayed on the back screen.
- Press to finish the process. Then select a channel and press to watch a program or press MENU key or EXIT key.
- * Note: Now you have completed all steps needed for watching programs.

 If you could not see the program after finishing these procedures,
 please contact your engineer or representative.





You can change the current channel to any other channel you want.

- ▶ If you know the channel number, enter the number and wait 5 seconds for the channel to change.
- ▶ If you know the channel name, press CH LIST key then channel list will pop-up.



- In the right section, detailed information of the selected channel will be displayed. (Name of satellite, frequency, symbol rate, etc.)
- Select the channel you want with (scroll up/down) or (page up/down).
- **3** When the scroll bar is positioned on the channel you want to see, press .





- While you are watching a program, press or to control volume of the current channel.
- * Note: You can configure volume of each channel differently.

Screen



When necessary, press MUTE key to remove the sound of the program temporarily.

Then, your receiver goes into mute condition and the volume bar will become red. Press **MUTE** key again to turn the sound on.



1 Favorite Channel

You can set up favorite channel lists as you want.

For example, if you want to set favorite channel lists as following.

Favorite1: 7 DWtv, 6 Hunan1

Favorite2: 1 Fujian1

Favorite3: 3 ANHUI TV, 5 Guangdong1

Firstly, set favorite1 channels.

- 1 Press CH.LIST.
- Select 'DWtv' channel with or or or .

Screen



3 Press RED.





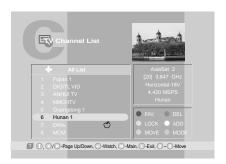
4 Select favorite1 with or and Press .

Screen





Do the same for the 'Hunan 1' channel.





6 Press **RED**.

Screen



1 Press .

Screen



Favorite1 ~ Favorite5 are default name. Users can rename them for their convenience. If you want to rename 'Favorite1' (for example 'Drama').

Press RED.





Select 'Favorite 1' with / .

Screen



Press IVORY.



7

7.2 Channel Editing





Screen



The Press MENU, EXIT or to finish the process.

You have finished favorite1 channel setting. With similar way, you can set favorite2 ~ favorite5 channel list. You can use these favorite channel lists by using **ORANGE** key. Refer to the next section for detail.



2 Channel List Mode

Using this function, you can see variant channel lists which may enable you to edit and select channels more conveniently.

Favorite Mode

If you have set up favorite channel lists as the previous section, you can use them as following.

1 Press CH.LIST.

Screen



2 Press ORANGE.





You can see 'Channel List Mode' window. Select 'Favorite' with and select 'Favorite1' with or .

Screen



4 Press 🔳.

Screen



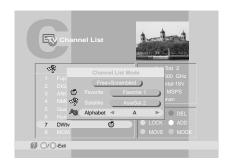
- ♦ You can see only favorite1 channels are listed. With similar way, you can see favorite2 ~ favorite5 channel list.
- **⑤** If you want to return to all channel list (all channels of the selected satellite), press **ORANGE** and select 'Satellite' with **△** / **○** and press **□**.



Alphabet Mode

Using this function, you can see the channel list which have same initial. This function is useful when you search specific channel among the list of thousands channels. For example, if you want to see the channel lists which start with 'D'.

Screen



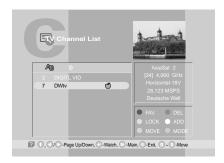
2 Select 'D' with .

Screen



3 Press .

Screen



4 You can see the channel list where all channels have initial 'D'.



Free only Mode

1 Press **ORANGE** in the channel list and select first line with / . Select **'Free only'** with / .

Screen



2 Select 'Favorite' or 'Satellite' or 'Alphabet' and press . You can see only the selected 'free' channel list.

Free + Scrambled Mode

1 Press **ORANGE** in the channel list and select first line with **()** Select **'Free+ Scrambled'** with **()** / **()**.





2 Select 'Favorite' or 'Satellite' or 'Alphabet' and press . You can see the selected free and scrambled channel list.

Screen



* Note: 'Scrambled' channel can be shown only with CI (Common Interface) model and CAS (Conditional Access System) model.

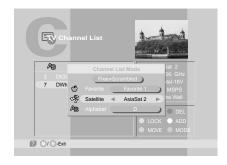
'Free' channel can be shown with all (FTA(Free To Air) and CI and CAS) model.

Satellite Mode

By using this function, you can see all channel list of the selected satellite.

Press ORANGE and select 'Satellite' item with / .

Screen



2 Press / to select a satellite and press .



3 Lock Channel

This menu enables you to prevent children from viewing programs unsuitable for their age.

Press CH.LIST and Select the channel you want to lock with or or or and press GREEN.

Then the selected channel is locked.

Screen

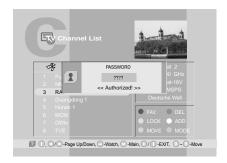


* Note: If 'password' window is risen as following picture, enter password with numeric keys (default password is' 0000'). Then you can lock the channel. If you don't want this window, change 'Parental Control' set up in the 'System Parameters' menu. Refer to the 'Parental control' in 'System parameters' in this manual for detail.





Screen



- **2** Press **MENU**, **EXIT** or **1** to finish the process.
- Without entering your password, you cannot watch a locked channel's program.

Screen



4 If you want to cancel the channel lock, go to the channel list and select the channel and press GREEN.





Channel Order Setting

You can organize the number or sequence of the channels.

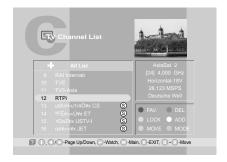
1 Press CH.LIST.

Screen



Select the channel you want to move with ____/ __ or ___/ __ and press YELLOW.

Screen



Solution Move the selected channel with or or or to the position you want.



7

7.2 Channel Editing

4 Press YELLOW.

Screen



6 Press **MENU**, **EXIT** or **1** to finish the process.

5 Delete Channel

You can delete channels from the channel list.

• Press CH.LIST and select the channel you want to remove with
or /
or / .





2 Press BLUE.

* Note: If 'password' window is risen as following picture, enter password with numeric keys (default password is' 0000'). Then you can delete the channel. If you don't want this window, change 'Parental Control' set up in the 'System Parameters' menu. Refer to the 'Parental control' in System parameters' in this manual for detail.

Screen



⑤ Then, you need to confirm the deletion. If you definitely want to delete, press ■. If not, press EXIT.



- * Note: Please be careful when you delete channel(s).
- **4** Press **MENU**, **EXIT** or **1** to finish the process.





1 Press CH.LIST.

Screen



2 Press Ivory.



- 3 Select a satellite into which you want to add your new channel.
- * Note: You can only select satellites which you set in 'Installation' menu.
- 4 Move to 'TP Frequency' section (column) by pressing and change frequency with / or enter frequency with numeric keys.
- * Note: TP frequency consists of 5 digits ending with GHz.
- * For example : TP Frequency 4.000GHz is \bigcirc \triangleright \bigcirc \triangleright \bigcirc \triangleright \bigcirc \triangleright \bigcirc

- **6** Move to **'Polarization'** by pressing and select Horizontal or Vertical with or .
- * Note: Please check whether LNB Power is ON in 'Installation' menu
- Move to 'Symbol Rate' by pressing and enter the Symbol Rate value with numeric keys.
- ♠ Move to 'CH. Name' by pressing
 ← and enter the alphabetic characters with numeric keys.
 - * For example: if you want to enter SAT-1,
 - 7 7 7 7 2 2 2 8 8 6 1 1 1 1 0 1
 - * Note : Press

 o

 for space
- Move to 'VIDEO PID' by pressing key and enter the proper value with numeric keys.
- Move to 'AUDIO PID' by pressing key and enter the proper value with numeric keys.
- * Note: The above mentioned TP Frequency, Symbol Rate, VIDEO PID, AUDIO PID, PCR PID are very important for optimal satellite signal reception.

 We recommend you get professional advice where available. You cannot setup 'VIDEO PID' for RADIO channels.



1 Setting Age Restrictions

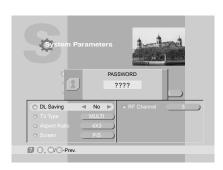
This sub-menu allows you to set the age for parental locking and protect children from viewing programs unsuitable for their age.

- **1** Press **MENU** key.
- **2** Press or to select **'System Parameters'** and press .

Screen

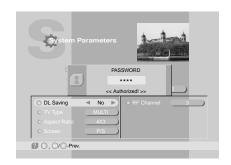


3 Press or to select 'Parental Control' and press .



- 4 Enter 4-digit password.
- * Note: The default password is '0000'

Screen



6 Press or to select 'Age Limit'.

Screen



6 Press or to select age you want.

None	No age limit	
8	Without entering password, programs are restricted to	
	those who are over 8 years old.	
12	over 12 years old.	
15	over 15 years old.	
18	over 18 years old.	

* Note: 'Age limit' can be applicable only for the signal which carries age limit information.



2 Security Check

You can set **SECURITY CHECK** to protect your current installation from being changed (location shift, deletion, adding etc.) or modifying of installed data.

- 1 Press MENU key
- **2** Press or to select **'System Parameters'** and press .
- **3** Press or to select 'Parental Control' and press .
- 4 Enter 4-digit password.
- * Note: The default password is '0000'
- **6** Press or to select 'Lock channel Editing', or 'Lock Installation'.
- Press or to select 'Yes', or 'No'.

Yes	When you process with 'Channel Editing' or 'Installation' of Main		
	Menu, your receiver will ask for password. If you enter wrong		
	password, you cannot proceed further.		
No	You do not enter password during your processing.		

* Note: Your receiver is pre-set as 'Yes'.

3 Password Changing

You can change your password.

- **1** Press **MENU** key.
- **2** Press or to select 'System Parameters' and press .
- **3** Press or to select 'Parental Control' and press .
- 4 Enter 4-digit password.
- * Note: The default password is '0000'
- **6** Press or to select 'New Password'.

7

7.3 System Parameters

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- **6** Press **0** ~ **9** numeric numbers to enter new password.
- **7** Press ① ~ ⑨ numeric numbers again to verify the new password.
- * Note: When you forget your new password, please consult the shop where you bought the receiver or the nearest dealer.



4 Personal Information Setting

You can enter your personal information, such as your name and address, etc.

- **1** Press **MENU** key.
- Press or to select 'System Parameters' and press .
- Press or to select 'Parental Control' and press .
- ♠ Enter 4-digit password.
- * Note: The default password is '0000'
- **6** Press or to select 'Personal'.
- ♠ Press ~ numeric numbers to enter new personal information.
- * For example: If you want to enter 'WELCOME',
 - 9 9 0 3 3 3 0 5 5 5 0 2 2 2 2 0 6 6 6
 - 6 00 6 6 00 3 3 3
- * Note: 1. Maximum 32 letters can be entered.
 - 2. Your entered personal information will be displayed on the TV screen as Welcome Window when you power on your receiver.
 - 3. Initial information is '* * * * * '.
 - 4. After purchasing the receiver, if information other than that which you entered is displayed, please consult the shop where you bought it.
 - 5. Personal Information does not affect your viewing in any way.





You can check the current information about your receiver such as receiver's software and hardware version or manufacturing date.

- 1 Press MENU key.
- **2** Press or to select 'System Parameters' and press .

Screen



3 Press or to select **'System Information'** and press .

Screen



* Note: This information is necessary when you download new software or you need to repair the receiver.

7

7.3 System Parameters



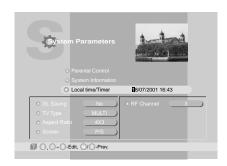
Setting Timer (Automatic power On/Off)

You can pre-set the on/off time of your receiver.

During your absence, you can record programs on your VCR.

- 1 Press MENU key.

Screen



- 3 Press or to select 'Local Time/Timer', and press .
- * Note: Without the local time setting, this 'TIMER' function does not work.



- 4 Press or to select 'Timer #(number)' you want to set and press .
- **6** determine 'CH. Type' by selecting 'TV' or 'RADIO' with or or ...

7

7.3 System Parameters

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- Select 'CH. Number' with or and enter channel number with numeric keys or with or .
- Select 'Start Time' for your receiver power-on.
 - * For example : For 1st of February in the year of 2000, 7:30 P.M., Enter (0) (1) (0) (2) (2) (0) (0) (1) (9) (3) (0) in sequence
- **8** Select **'Stop Time'** by pressing .
- Enter power off time in the same way as you entered 'Start Time'
- **©** Select 'Status' and set 'Yes/No' with or or .
- * Note: 1. Without 'STATUS' being actuated (ON), Timer does not work.
 - 2. If Prior time than current is entered, Timer does not work.
 - 3. You can pre-set 7 TIMERs simultaneously. Regardless of number of TIMER, Timer will work in sequence of time sequence.
 - 4. Remocon Key doesn't work while Timer is 'On' for stable VCR recording.

Setting Day Light Saving Time (Summer Time)

You can adjust current local time when summer time is applicable.

- 1 Press MENU key.
- **2** Press or to select **'System Parameters**', and press **.**
- 3 Press or to select 'DL Saving'.
- 4 Press or to select 'Yes' or 'No'.

Yes	Set for daylight saving function activated
103	The current time automatically moves one hour ahead
No	Set for daylight saving function deactivated
140	The current time automatically moves on hour behind

* Note: Without current local time setting, this menu cannot be processed.



8 Setting TV Type

You can set your TV display mode with this sub-menu.

- 1 Press MENU key.
- **2** Press or to select **'System Parameters'**, and press .
- 4 Press or to select 'Multi', 'PAL', or 'NTSC'.

Multi When your TV is compatible with NTSC/PAL dua	
PAL	When your TV is only for PAL reception. Regardless of
IAL	satellite signal, the display will be done in PAL format.
NTSC	When your TV is only for NTSC reception. Regardless of
IVISC	satellite signal, the display will be done in NTSC format.

* Note: If the satellite signal and your TV type are mismatched, the TV picture may be distorted. Even in this case, MENU will be displayed as normal. (e.g. When you receive PAL satellite signal with NTSC TV type setting or vice versa)





This sub-menu allows you to select your TV aspect ratio to 4:3 or 16:9 according to your wishes.

- 1 Press MENU key.
- **2** Press or to select 'System Parameters', and press
- **3** Press or to select 'Aspect Ratio'.
- lacktriangle Press or or to select '4x3' or '16x9'.

4x3	When your TV is 4:3.
16x9	When your TV is 16:9.

* Note: If you set 4 x 3 when the Satellite input signal is 16 x 9, the right and the left parts of the original picture may not be seen.

7

7.3 System Parameters

10 Setting Screen

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You can select the satellite input signal display mode.

- 1 Press MENU key.
- **2** Press or to select **'System Parameters'**, and press **.**
- **3** Press or to select 'Screen'.
- 4 Press or to select 'P/S' or 'L. Box'.

D/\		When you set screen display boundary from Pan/Scan
		data of Satellite input signal. (For signal for 16x9 program)
L.Box		You can watch 16 x 9 ratio screen by reducing original
	L.DOX	size vertically and horizontally.

- * Note: 1. If you select 'L.Box', the screen might be distorted. Upper and lower part of the screen will be blocked with black stripes.
 - 2. 'Screen' function is helpful when receiving 16 x 9 signal with TV of 4x3 format.

Setting Output Channel no. of RF Modulator

You can select the channel number for the RF modulator output.

- **1** Press **MENU** key.
- **2** Press or to select 'System Parameters', and press
- 3 Press or to select 'RF Channel'.
- 4 Press or to select channel number you want.
- * Note: RF modulator channel number has nothing to do with any channel numbers of TV ANT IN signal.



7.4 Transponder



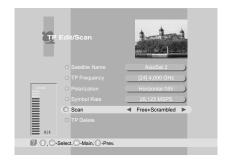
After 'LNB Configuration' and 'Antenna Setup' procedure, when necessary, you can edit and/or add certain TPs (transponders)

- 1 Press MENU key.

Screen



Select 'TP Edit/Scan' with on or, and press .



- ◆ Select the 'Satellite Name' which includes the TP you want to add/edit with or .
- 6 Move to 'TP Frequency' with and select the TP you want to edit with or .
- **6** If you want to add the new TP, enter the TP frequency with numeric keys.



7.4 Transponder

- Select 'Polarization' by pressing and the set the proper value for selected TP with or or .
- **8** Select **'Symbol rate'** by pressing and enter the symbol rate value for the selected **TP** with numeric keys.
- ♠ After entering all values of the TP parameters, move to 'SCAN' section (column) with and press for storing all the entered TP data.
- As a result, you can get the following menu showing the scanning process.

Screen



After scanning process, the first channel of scanned TP will be displayed.

Screen



*Note: If the scan fails, please check whether your entered values are correct or not and the signal reception sensitivity is good or bad.

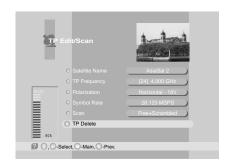


7.4 Transponder

2 TP Delete

- 1 Press MENU key.
- 3 Select 'TP Edit/Scan' with or or, and press .

Screen



- ♠ Move to TP section (column) with and select the TP you want to delete with or .
- 6 Move to 'TP Delete' section (column) by pressing and press ☐.
- 6 When the menu asks you to confirm the deletion, press ☐ if you want to delete it or press EXIT key if you want to void the deletion.

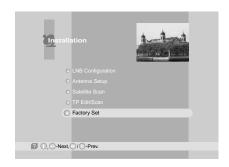


7.5 Factory Set

The status of the receiver will return to factory default parameters by using this function.

- Press MENU key.

Screen



Select 'Factory Set' with on or, and press .

Screen



◆ When the menu asks you to confirm the reset, press ☐ if you want to reset or press EXIT key if you want to void the reset.

7

7.6 Other Function on Remote Control

1 TV/SAT switching

This function is used for receiving a signal through the RF modulator. If your receiver has no 'TV ANT IN' terminal in the rear panel, this key may not work.

- Press 'TV/SAT'. The signal reception path will change to RF modulator and 'TV/SAT' LED on front panel will be lit.
- 2 The signal output through the RF modulator will be as follows:

TV/SAT LED	Power ON	Power OFF
ON	TV ANT IN signal will be out.	
OFF	Decoded signal will be out through RF.	TV ANT IN signal will be out.
	i i i ougi i ki .	

2 TV / RADIO switching

You can use this menu when you change a TV channel to a Radio channel or vice versa.

- 1 Press 'TV/RADIO'.
- **2** When listening a radio channel, 'r001' will be displayed on the front panel.



3 GUIDE(EPG:Electronic Program Guide)

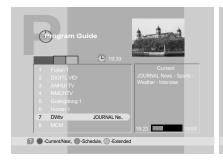
You can check the channel information on the channels of the transponder you are watching.

1 Press GUIDE key, then the following menu will be displayed.

Screen



- * Note: 1. You can check local time, channel name, and other brief information on the current program.
 - 2. If you didn't set local time under 'System Parameters' section, the GUIDE function may not work properly.
 - 3. EPG information is delivered by satellite from service providers. If the channel does not carry any signal on the guide data, this function may not work properly.
- Select Channel with / .
 Then you can see current or next program information of the selected channel.
- (a) If you press **GREEN**, current or next program information would be converted to next or current program information respectively.







If you press YELLOW, you can see program schedule list of the selected channel.

Screen



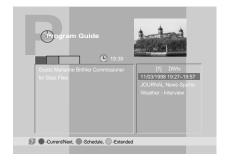
6 If you want to see program information of a program in the program schedule list, select the program with ____/____.

Then you can see the program information in the right window.

Screen



⑤ If you press **BLUE**, you can see extended program information of the selected program.





- 7 You can set up automatic power on-off (Timer) on the program schedule list. After press **YELLOW** in the Guide(EPG) menu, select a program with or or or and press .
- Select between 'No', 'Once', 'Daily' or 'Weekly' of 'Status' with or or .

Screen



Press to save the new 'Timer' setting.



- **10** Press **MENU**, **EXIT** or **10** to finish **GUIDE** menu.
- * Note: 1. Without 'STATUS' being actuated (Yes), 'Timer' does not work.
 - 2. If a program of prior time than current time ('Local Time' in 'System Parameters' menu) is selected, Timer does not work.
 - 3. Refer to 'Setting Timer' in 'System Parameters' in this manual.





You can adjust the subtitle and audio condition/status of the current channel.

• Press 'AUDIO' and subtitle and audio related window will be displayed on the screen.

Screen



In this example, program spoken language is 'English' and user's selected subtitle language is 'Swedish'.

Screen



The contents of each parameter are as follows;

Subtitle Track	(Subtitle language #) of (all subtitle language available in this	
	program)[Current selected subtitle language]	
Audio Track	(Audio track #) of (all tracks available in this program)	
	[spoken language in this program]	
Audio Mode	Stereo -> Mono-Left -> Mono-Right	
Dig.Output	Non-compressed / Compressed	

* Note: These subtitle and audio parameters are workable only when the receiving channel supports these functions.





Teletext Service is text data service from Service Provider. It is available only when the satellite signal carries teletext service data.

1 Press BLUE key and wait.

If '*' sign is pop up in the left upside of the screen as the following picture, wait until teletext service menu is displayed because '*' means 'This program provides teletext service. So wait a moment'.

Screen



2 Teletext Service Data is displayed as following picture.

Screen



Select your interesting item with numeric keys. For example, if you want to see about 'CITY GUIDE', press 6 0 0.







Your receiver will automatically power-off when the time you set is passed. Press 'SLEEP' key until the right time you want appears.

Screen



* Note: 1. You can set SLEEP TIMER in 30 minute steps up to 150 minutes.

2. The SLEEP TIMER does not work while you are in 'MENU',
 'GUIDE' or 'CHANNEL LIST'.





Brief information is displayed, such as current channel type, name, local start/end time, guide information, current time, fav/normal mode, Audio mode and Audio ID.

• Press INFO, then the information bar will pop-up.



- * Note : If you have no information :
 - Check your local time setting is correct.
 - Information is not sent by the channel provider.

Trouble Shooting

There may be various reasons for the abnormal operation of the unit. Therefore, if the unit does not work properly, check it according to the procedures shown in the table below:

Problem	Possible causes	Remedy
LED on front panel does not light.	AC power cord disconnected.	Connect power cord properly into the power socket.
No Picture or sound.	Wrong connection of the video/audio output to TV input terminal.	Connect two terminals correctly with RCA or RF cable.
	Wrong connection of satellite antenna cable.	Connect the antenna cable correctly.
	Wrong direction of satellite antenna.	Adjust the direction of antenna.
	No signal or weak signal.	Check the cable connections, LNB and other equipment connect- ed between the LNB and the receiver or adjust the antenna.
	Wrong setting of channel information in MENU screen.	Type the setting value correctly.
Black-and-white screen or V-Hold.	Your TV mode is different from satellite broadcasting mode.	Use TV of same mode.
		Use the NTSC/PAL converter connected to the receiver and TV.
The remote con-	Battery exhausted.	Change the batteries.
troller is not working.	Fluorescent light interfering with the remote controller	Switch off the light.
	Remote controller is incorrectly aimed.	Aim the remote control at the receiver.

Specifications

System capabilities	Fully DVB compliant	
LNB/Tuner input	Connector	IEC 169-24, female
	Frequency range	950MHz ~ 2150MHz
	Signal level	-65dBm ~ -25dBm
	LNB supply	14/18V, max 400mA
	LNB switch control	22KHz
	DiSEqC	Ver 1.2 Compatible
Demodulator	Front end	QPSK
	Symbol rate	2Msps ~ 45Msps
	SCPC and MCPC Capable	
	Spectral inversion	Auto conversion
System resource	Processor	32bit processor (80MHz)
	SDRAM	8Mbyte
	FLASH	2Mbyte
	EEPROM	2Kbyte
Video Decoder	MPEG 2	Main Proflie @ Main Level
	Data Rate	up to 15M bits/s
	Resolution	720 X 576, 720 X 480
	Video format	NTSC, PAL
	Aspec Ratio	4:3, 16:9
Teletext	DVB compliant	
MPEG Audio	MPEG 1 layer 1 & 2	
	Туре	Mono, Dual mono, Stereo, Joint Stereo
	Sampling rates	32, 44.1 and 48 KHz
Serial data interface	Connector	9pin D-sub male, Max 115K bps

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Remote control	Code	NEC-IR
	Operating condition	up to 7 Meter
Power supply	Power consumption	max 30W
113	Supply voltage	AC 120V
	Supply frequency	60 Hz
	Video out	1 X RCA cinch
Rear Panel connectors	Audio L/R	2 X RCA cinch
tors	DIGITAL OUT	1 X RCA cinch
	Serial data	9pin D-sub
	Digital tuner input	IEC 169 - 24
	Loop-through Digital tuner	IEC 169 - 24
	Terrestrial ant input	IEC 169 - 2
	RF modulator output	IEC 169 - 2

· · ·	Connector	IEC 169-2, female/male
RF modulator (PAL or NTSC) PAL G/I/K TV Type	Frequency	470 ~ 860MHz
	Output channel number	3 ~ 4
Physical	Size (W X H X D)	335 X 58.5 X 268(mm)
Specification	Weight (Net)	3.2Kg



PANAREX Inc. warrants to the original purchaser that this product shall be free from defects in workmanship and material for one year from the date of original purchase. During this warranty period PANAREX will provide free of charge both parts and labor necessary to correct defects in workmanship or material.

This warranty dose not cover damage due to lightning, fire, flood, or other acts of God, damage from accident abnormal conditions, imporper use, or faulty installation, or damage by attempts to repair the units other than by the authorized service of PANAREX.

PANAREX's liablity under this warranty is limited to servicing or adjusting equipment returned to PANAREX authorized service centers with freight prepaid.

Panarex

Electronics

☑ Pansat® Satelite TV System

11672 Tuxford Street. Sun Vailey, CA91352. U.S.A.

Telephone: #818-768-5161

Fax: #818-768-5191



CAUTION

RISK OF ELECTRIC SHOCK



ATTENTION : RISQUE CHOC LELECTRIQUE-NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL





WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

AVIS

POUR EVITER LE RISQUE D'INCENDIE OU CHOC ELECTRIQUE-NE PAS EXPOSER L'APPAREIL A LA PLUIE OU LA MOITEUR

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

CAUTION : TO PREVENT ELECTRIC SHOCK. MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FUSE INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES.
INTRODURE LA LAME LA PLUS LARGE
DE LA FICHE DANS LA BORNE
CORRESPONDANTE ED LA PRISE ET
POUSSER JUSOU'AU FOND.

NOTE TO CATV SYSTEM INSTALLER: THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THE PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDINGS AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

IMPORTANT SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

The safety and operating instructions should be retained for future reference.

All warnings on the product and in the operating instructions should be adhered to.

All operating and using instructions should be followed.

Unplug this product from the wall outlet before cleaning.

Do not use liquid cleaners or aerosol cleaners, Use damp cloth for cleaning.

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near swimming pool; and the like.

Do not place this product on an unstable cart, stand, tripod, bracket, or table, The product may fall, causing serious injury to a child or an adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive forces and uneven surfaces may cause the product and cart combination to overturn.



Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. The openings should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For porducts intended to operate from battery power, or other sources, refer to the operating instructions.

This product may be equipped with a polarized alternating-current line plug(a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power supply cord should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

If an outside antenna or clable system is connected to the product, be sure the antenna or cable system is grounded so as to porvide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mest and supporting structure, gorunding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

For added protedtion for this product during a lighting storm, or when it is left unattecded and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be tacken to keep from touching such power lines or circuits as contact with them might be fatal.

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Never push any kinds of objects into this product through openings as they may touch dangerous voltage points or shortout parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain to water. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qulaified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement part specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric

shock, or other hazards.

Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products(including amplifiers) that produce heat.

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 will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by tuming 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.
- \bullet Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for assistance.