



Appendix F.

User Manual

FCC ID : PZ8PANSAT500CI
Report No : E01.1105.FCC.451N
Date of Test : November 01~03, 2001



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.

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

WARNING

AVIS

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

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 a damp cloth for cleaning.

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

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.

NOTE TO CAVY SYSTEM INSTALLER: THIS REMANDER IS PROVIDED TO CALL THE CAVY SYSTEM INSTALLERS ATTENTION TO ARTICLE 820.40 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFICS THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

ATTENTION : POUR ENTER LES CHOC ELECTRIQUES INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE. ED LA PRISE ET POUSSER JUSQU'AU FOND.

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 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.



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 products 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; 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 cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide 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 mast and supporting structure, grounding 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 protection for this product during a lightning storm, or when it is left unattended 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 taken 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 short-out 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 or 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 qualified technician to restore the product to its normal operation.

operation.

- If the product has been dropped or damaged in a manner that may affect its operation.
- When the product exhibits a distinct change in performance.

When replacement parts are required, be sure the replacement parts have the same characteristics as the manufacturer or have the same characteristics in fire, electric shock, or other hazards.

Upon completion of any service or repair to this product, the user should be advised of the proper operation to determine that the product is in proper operating condition.

The product should be situated away from heat sources (including amplifiers) that produce heat.

NOTE : This equipment has been tested and found to comply with the requirements of Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against interference to other licensed operations.

This equipment generates, uses, and can radiate radio frequency energy, and, if not properly installed and used, may cause interference to other licensed operations.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to your radio or television reception, you can try the following measures:

- Repoint or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet of a circuit different from the outlet of the receiver.
- Consult the dealer or an experienced radio / TV technician for help.

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DiSeqC is a trademark of EUTEISAT.

Introduction

1.1 Overview

This Common Interface is your "Window to the World" giving you the opportunity to enjoy scrambled programs. Enjoy the rich choice of more than 2,000 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
- ▶ Integrated COMMON INTERFACE
- ▶ Multi-access with twin card reader for CI
- ▶ 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 1.0 & 1.2 compatible

2.2 Precautions

When installing the unit

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



Do not put heavy items such as a TV on the unit. That 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.



3.1 Accessories

Accessories

User's manual

Batteries (AA)

▶ If any AC sensor is not working, please contact your local service center.

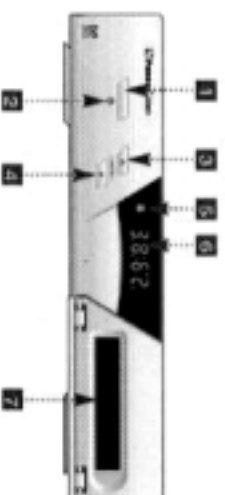
3.2 Troubleshooting

Your dish should be set to the correct position. If it is not, please ask your local service center for help.

Controls/Functions

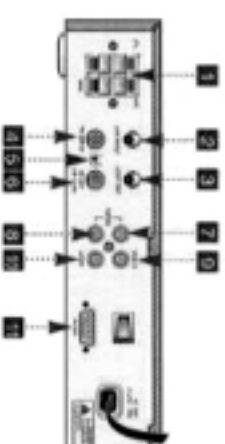
4

4.1 Front Panel



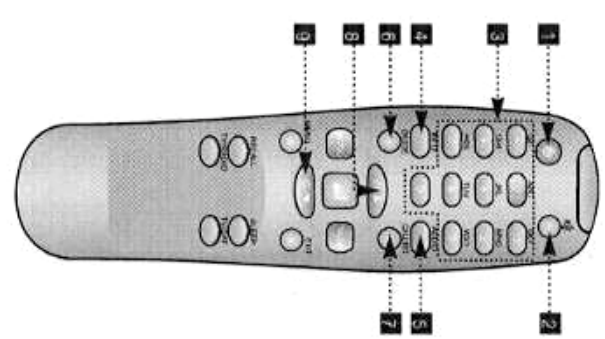
- 1 Power**
To switch the receiver in "standby" mode or in power on mode.
- 2 Standby/Power on indication light**
Flashing red in "standby" and no light in power on mode.
- 3 - 4 CH (▲/▼)**
To change channel or cursor position on the application screen.
- 5 Remote Sensor**
Receives the infrared signal from remote control.
- 6 Channel Display(4 Digits)**
- When you connect the power line of the receiver, the current time is displayed.
- After programming, the program number or name is displayed.
- 7 Slot A, B**
PCM/MA-module : provided by a broadcaster for watching scrambled programs.

4.2 Rear Panel



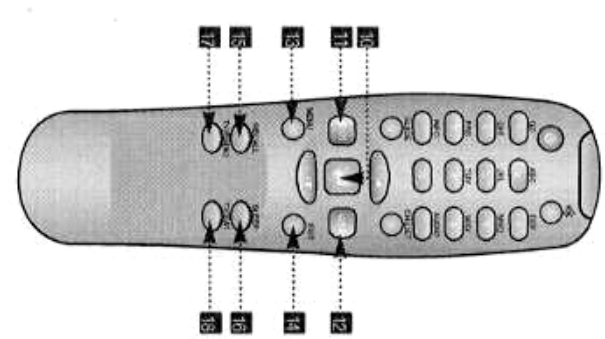
No.	Name	Connector	Function
1.	S/REW	PUSH Terminal	Used for controlling the mechanism of LNB.
2.	LNB INPUT	IEC 169-24 female	If input from digital tuner
3.	LOOP OUT	IEC 169-24 female	If loop-stroke from digital
4.	TV ANT IN	IEC 169-24 female	Input from the antenna.
5.	RF Channel	switch	Used for switching RF Channel
6.	RF OUT VHF 3-4	IEC 169-24 female	Output to the antenna
7.	AUDIO L	RCA cinch	Left audio output
8.	AUDIO R	RCA cinch	Right audio output
9.	VIDEO	RCA cinch	Composite video output
10.	D/TV	RCA cinch	Used for satellite LNB
11.	RS-232C	DB-9	Low speed serial port

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, stereo-mono 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 CH. & CH. :**
- To select TV/RADIO channels.
- To move the cursor up and down in menu.

4.3 Remote Control



- 10 (ENTER) :**
To select an item or menu.
- 11 - 12 VOL. & VOL. :**
- To change the volume.
- To change the value item with preprogrammed in menu.
- can be used as to cancel the number.
- 13 MENU :**
To enter/exit the main menu.
- 14 EXIT :**
To return to previous screen.
- 15 RECALL :**
To return to the previous channel.
- 16 SLEEP :**
To switch off the receiver after between 30 and 60 minutes.
- 17 TV/RADIO :**
To switch between TV and radio channels.
- 18 TV/SAT :**
To toggle the TV output between the satellite UHF/VHF antenna in.

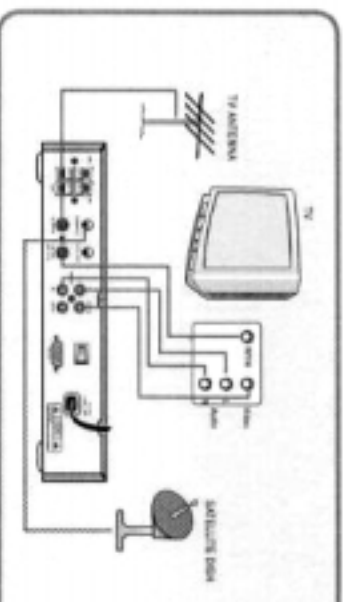
5.1 Batteries

Using the

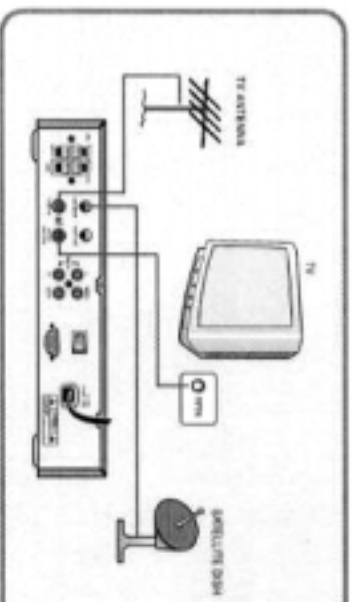
- ▶ **How to insert a battery**
 - 1 Open the cover at the rear side of the remote control.
 - 2 Insert two AAA type batteries to be aligned with appropriate polarity.
 - 3 Close the cover completely.
- ▶ **When to replace a battery**
If the operational range of control is getting smaller, if batteries are almost consumed. Replace both batteries to
- ▶ **How to replace a battery**
 - 1 Check +/- polarities and batteries to be aligned appropriately +/- polarity.
 - 2 Even if old and new batteries are the same in size, do not use with different character
- ▶ **Accident prevention**
 - 1 Do not recharge, heat, or the battery. Do not connect.
 - 2 If remote controller is not used for a long time, take it out.

How to Connect

6.1 When Connecting IRD to TV with RF, AV connectors



6.2 When Connecting IRD to TV with RF



Operation



7.1 Getting Started

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.



Press **POWER** on remote control, the LED number will be displayed as follows.



Press **MENU** key and position cursor on 'Language' column with  or .

Select language you want with  or .

Screen



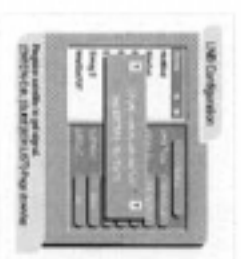
* Note : Languages displayed in 'Language' column are supported by your receiver.



7.1 Getting Started

② Select the **Satellite** you want to add with or and press or .

Screen



③ 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 add the data of the satellite which is already contained in the receiver, press after you select the satellite.

④ Select item you want to edit with or and change each parameter.

- LNB Type : Set LNB Type with or .

- High LO/Low LO : Enter LNB oscillator frequency with numeric keys.

- Power : Set LNB power ON or OFF with or .

If you set LNB type OCS C-band you can set power ON, 14V, 18V or OFF.

- 0/12V : Set the path of 0/12V switch box with or .

- 0/22KHz : Set the path of 0/22KHz switch box with or .

- DiSeqC : Set the feature of DiSeqC box by pressing or .

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 12V, 22KHz and DiSeqC properly.

7.1 Getting Started

⑤ When necessary, you can change a character with or . You can enter alphabetic characters.

For example, if you want to enter 'SAT-1', Press , , , , .

* **Note :** Press for space.

⑥ After the installation procedure, press entered data.

3 Antenna Setup

You need to position your antenna correctly.

① Press **MENU** key.

② Select 'Installation' with or .

Screen





7.1 Getting Started

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



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

- ④ Select the **satellite** you want with or .
- ⑤ Press to move to TP section and select the TP you want with 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%

7.1 Getting Started

④ Positioner Setting

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

- Positioner : Select 'On/Off' with or .

On	In case you have a positioner, you can set Move/Save an
Off	If you have no positioner, you do not need to set it.

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

	Move your antenna to west direction.
	Move your antenna to east direction.
	Store the position of your antenna.

- Set limit : Select limit of your antenna movement to east/west and press .

*** Note : This may be necessary to protect your antenna from a collision between your antenna and certain obstacles**

- Goto 0 : If you press , positioner will work to move your antenna to position.

⑤ Skew setting

- Skew Hor. (Horizontal) : Set angle with or .
- Skew Ver. (Vertical) : Set angle with or .

*** Note : If you are using a mechanical polarizer, you can select horizontal or vertical by connecting the polarizer to skew connector.**

7.1 Getting Started

④ Satellite

After finishing
Then you can
used to get the
receiver scan

- ① Press **MEM**
- ② Select 'In'
- ③ Select 'Sat'

Screen

- ④ Select 'Sk'
- ⑤ Select 'th'
- ⑥ Select 'th'

Screen

7.1 Getting Started

Select Channel

You can change from the current channel to any other

- ▶ If you do not know the channel name, or you want to random, you can navigate between channels with (CH. Up/Down) till you find the channel you want.
- ▶ If you know the channel number, enter the number for the channel to change.
- ▶ If you know the channel name, press CH LIST key to pop-up.

Screen



- ① In the left section, detailed information on the selected channel (Name of satellite, frequency, fee or screen) is displayed.
 - ② Select the channel you want with (CH. Up/Down) (scroll) or (page up/down).
 - ③ When the scroll bar is positioned on the channel you want, press CH LIST key to pop-up.
- * Note : If you press CH LIST when the above menu is displayed, the mode of Channel List will be changed. (From ALL LIST and by pressing CH LIST again, the screen will be changed into 'Favorite' mode as you can see in the next page.)

7.2 Channel Editing

1 Favorite Channel

By pressing CH LIST key, you can set it to display only selected channels as "Favorite".

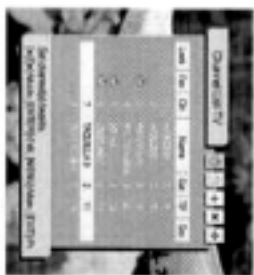
- ➊ Press MENU key.
- ➋ Select "Channel Editing TV" with or and press .
- ➌ Select with or and press .

Screen



- ➍ Select the channel you want as a favorite with or (Scroll Up/Down), or (Page Up/Down), and press .

Screen



- ➎ Press MENU key or EXIT to finish the process.

* Note : If you are in the Favorite mode, you can select only the channels selected as Favorite channels.



7.2 Channel Editing

- ➊ Press **MENU** key or **EXIT** key to finish the process.
- ➋ Without entering your password, you cannot watch a locked channel.

Screen



* **Note** : Password for locked channel is the same as first of parental control.
See 'Password Changing' of 'System Parameter'

7.2 Channel Editi

3 Order Setting Ch

You can organize the r

- ➊ Press **MENU** key.
- ➋ Select 'Channel Editi
- ➌ Select + with **⏏** c

Screen



- ➍ Select the channel :
or **⏏** / **⏏** (Page Up)

Screen



7.2 Channel Editing

- ➊ Move the selected channel with / or or to the position you want, and press .

Screen



- ➋ Press **MENU** or **EXIT** to finish the process.

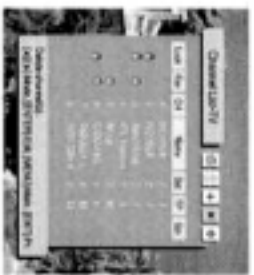
7.2 Channel Editing

4 Delete Channel

You can delete channels from the channel list.

- ➊ Press **MENU** key.
- ➋ Select "Channel Editing TV" with or and press .
- ➌ Select **X** with or and press .

Screen



- ➍ Select the channel you want to remove with / (Scroll Up/Down) or / and press .

Screen





7.2 Channel Editing

➊ Then, you need to confirm the deletion. If you definitely want to delete, press **[OK]**. If not, press **EXIT** key.

*** Note:** Please be careful when you delete channel(s).

*** Note:** To restore the deleted channel(s), see 'Factory Set' in 'System Parameter'

➋ Press **MENU** key or **EXIT** key to finish the process.

7.2 Channel Editing

5 Add Channel

You can add new channel(s) with this MENU.

➊ Press **MENU** key.

➋ Select 'Channel Editing TV' with **[Left]** or **[Right]** and press **[OK]**.

➌ Select **[Up]** with **[Left]** or **[Right]** and press **[OK]**.

Screen



➍ Select satellite from which you want to add your new channel Satellite Name.

*** Note :** You can only select satellites which you set in 'Install

➎ Move to 'TP Frequency' section (column) by pressing **[Left]** or **[Right]** frequency with **[Left]** or **[Right]** or enter frequency with numeric key.

*** Note :** TP frequency consists of 5 digits ending with GHz.

*** For example :** TP Frequency 4,000GHz is **[4]** **[0]** **[0]** **[0]** **[0]**

➏ Move to 'Polarization' by pressing **[Left]** or **[Right]** and select Horizontal with **[Left]** or **[Right]**.

*** Note :** Please check whether LNB Power is ON in 'Installation

7.2 Channel Editing

➐ Move to 'Symbol Rate' by pressing value with numeric keys.

➑ Move to 'CH. Name' by pressing **[OK]** and acters with numeric keys.

*** For example :** if you want to enter \$

*** Note :** Press **[Space]** for space

➒ Move to 'VIDEO PID' by pressing value with numeric keys.

➓ Move to 'AUDIO PID' by pressing value with numeric keys.

➔ Move to 'PCR PID' by pressing value with numeric keys.

*** Note :** The above mentioned TP Frequency, AUDIO PID, PCR PID are very important for reception. We recommend you to use the available.

7.3 System Parameters

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'.

⑤ Press  or  to select **Lock channel Editing** or **Lock Installation**.

⑥ 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 'No'.

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'.

7.3 System Parameters

5 System Information

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

➊ Press **MENU** key.

➋ Press  or  to select 'System Parameters' and press .

➌ 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.

7.3 System

6 Setting L

You can enter you to set it

➊ Press **MEN**

➋ Press  or 

➌ Press  or 

Screen

➍ Input CLR

* For exa

ENTER 

* Note : Ho

➎ Press **EXIT**

* Note : 1.1

1

2.

3.1

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1

1

7.3 System Parameters

7 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.

- ➊ Press **MENU** key.
- ➋ Press or to select 'System Parameters', and press .
- ➌ Press or to select 'Local Time/Timer', and press .
- * **Note :** Without the local time first being entered, this **TIMER** function does not work.

Screen



- ➍ Press or key to select 'Timer #(number)', you want to set and press .
- ➎ Enter parameters such as 'CH, Type', number with , or .
- ➏ Select 'Start Time' for your receiver power-on.
- * **For example :** For 1st of February in the year of 2000, 7:30 P.M., Enter , , , , , , , , , in sequence
- ➐ Select 'Stop Time' by pressing .
- ➑ Enter power off time in the same way as you entered 'Start Time'.

7.3 System Parameters

8 Setting TV Type

- ➊ Select 'Status' and set 'Yes/No' with , .
- * **Note :** 1. Without 'STATUS' being activated/ON.
2. If the time entered is earlier than the time not work.
- 3. You can pre-set 7 TIMERS simultaneously
but of TIMER, the timer will work in sequence.

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

➊ Press MENU key.	
➋ Press < or > to select 'System Parameters'	
➌ Press < or > to select 'TV Type'	
➍ Press < or > to select 'Multi', 'PAL', or 'NTSC'.	
Multi	When your TV is compatible with NTSC/PAL
PAL	When your TV is only for PAL reception. R signal, the display will be done in PAL for
NTSC	When your TV is only for NTSC reception. satellite signal, the display will be done in

* **Note :** If the satellite signal and your TV type are screen may be distorted. Even in this case played as normal. (e.g. When you receive NTSC TV type setting or vice versa)



7.3 System Parameters

9 Setting Teletext

Teletext function is available only when the satellite signal carries teletext service data.

- ➊ Press **MENU** key.
- ➋ Press or to select 'System Parameters', and press .
- ➌ Press or to select 'Teletext'.
- ➍ Press or to select 'Yes' or 'No'.

Yes	Teletext Service Data will be displayed on TV screen.
No	Teletext Service Data will not be displayed on TV screen.

- * Note :** 1. If your TV set has no teletext function, you cannot see teletext service data regardless of these settings.
2. If your TV set is NISC mode, or satellite signal is NISC, you cannot see teletext service data regardless of these settings.

10 Setting Aspect Ratio

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

- ➊ Press **MENU** key.
- ➋ Press or to select 'System Parameters', and press .
- ➌ Press or to select 'Aspect Ratio'.
- ➍ Press or to select '4x3' or '16x9'.

4x3	When your TV is 4:3.	16x9	When your TV is 16:9.
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- * 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 screen may not be seen.

7.3 System Parameters

11 Setting Screen

You can select the satellite input signal display mode.

- ➊ Press **MENU** key.
- ➋ Press or to select 'System Parameters', and press .
- ➌ Press or to select 'Screen'.
- ➍ Press or to select 'P/S' or 'L Box'.

P/S	When you set screen display boundary from Pan of Satellite input signal. (For signal for 16x9 programme)
L.Box	You can watch 16 x 9 ratio screen by reducing or vertically and horizontally.

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

12 Setting Output Channel no. of RF Modulator

You can select the channel number for the RF modulator.

- ➊ Press **MENU** key.
- ➋ Press or to select 'System Parameters', and press .
- ➌ Press or to select 'RF Channel'.
- ➍ Press or to select channel number you want.

- * Note :** RF modulator channel number has nothing to do with channel numbers of TV ANT IN signal.

7.3 System Parameters

13 Setting Color for OSD

You can set the color for OSD.

- ➊ Press **MENU** key.
- ➋ Press or to select 'OSD'.
- ➌ Press or to select 'Color'.
- ➍ Press or to select 'Color'.

- * Note :** Actual color of OSD may be different from the choice on the screen.

14 Setting MENU Screen

You can control the transparency of OSD.

- ➊ Press **MENU** key.
- ➋ Press or to select 'MENU'.
- ➌ Press or to select 'Transparency'.
- ➍ Press or to select 'Transparency'.

- * Note :** The transparency of OSD may be different from the choice on the screen.

7.4 Transponder

- ➊ Select the 'Satellite Name' which includes the IP you want to set with or .
- ➋ Move to 'TP Frequency' with and select the IP you want to or .
- ➌ If you want to add the new IP, enter the TP frequency with numeric keys.
- ➍ Select 'Polarization' by pressing and the set the proper value selected IP with or .
- ➎ Select 'Symbol rate' by pressing and enter the symbol rate for the selected IP with numeric keys.
- ➏ After entering all values of the IP parameters, move to 'SCAN' (column) with and press for storing all the entered IP data.
- ➐ As a result, you can get the following menu showing the scanning process.

Screen



- ➑ After scanning process, the first channel of scanned IP will be displayed.
- *Note : If the scan fails, please check whether your entered value is correct or not and the signal reception sensitivity is good.

7.5 Factory Set

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

- 1 Press **MENU** key.
- 2 Select 'Installation' with **←** or **→**, and press **⏏**.
- 3 Select 'Factory Set' with **←** or **→**, and press **⏏**.

Screen



- 4 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.



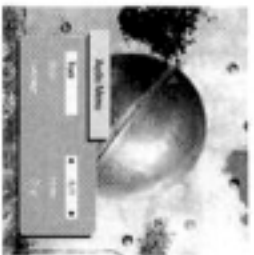
7.6 Other Function on Remote Control

4 Audio

You can adjust the audio condition status of the current channel.

- 1 Press 'AUDIO' and Audio related window will be displayed on the screen.

Screen



- 2 Select the item you want to adjust with or and change the parameters with or .

The contents of each parameter are as follows :

Track	indicating audio track number of all tracks available from the selected channel.
Mode	Stereo ▶ Mono Left ▶ Mono Right
Language	indicating a language of your selected audio track.

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

7.6 Other Function on Remote Control

5 Sleep Timer

Your receiver will automatically power-off when the time you

- Press 'SLEEP' key until the right time you want appears.

Screen



- * Note : 1. You can set SLEEP TIMER in 30 minute steps up to :
2. The SLEEP TIMER does not work while you are in 'M' 'GUIDE' or 'CHANNEL LIST'.

8.2 Receiving Scrambled Channels

With a DVB COMMON INTERFACE compatible CAM Module and a Smart card, you can receive relevant and/or encrypted channels. Viaccess, Conux, Cryptolite and Mediaguard encryption platforms are compatible.

➊ Insert a CAM into one slot of your receiver.
(You can insert two CAMs at the same time)



- * Note : 1. Insert the CAM fully into the slot so that the CAM faces upwards and inwards.
2. Insert the smart card fully into the CAM.
(gold color) faces upwards and inwards
- ➋ The message of 'CAM Initializing' will appear on the screen.
➌ After the message 'CAM Initializing' has disappeared, the channel you want.

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 scart cable or 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 connected 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 MSC/PAU converter connected to the receiver and TV.
The remote controller is not working	Battery exhausted Fluorescent light interfering with the remote controller Remote controller is incorrectly aimed.	Change the batteries Switch off the light Aim the remote control at the receiver.

Remote control	Code	NEC-R
	Operating condition	up to 7 Meter
Power supply	Power consumption	max 30W
	Supply voltage	AC 120V
	Supply frequency	47Hz ~ 63Hz
Rear Panel connectors	Video out	1 X RCA cinch
	Audio L/R	2 X RCA cinch
Physical Specification	0/12V	1 X RCA cinch
	Serial data	open D-sub
	Digital tuner input	EC 169 - 24
	Loop through Digital tuner	EC 169 - 24
	Terrestrial ant input	EC 169 - 24
	RF modulator output	EC 169 - 24

RF modulator NISCC TV Type	Connector	EC 169-24, female
	Frequency	470 ~ 860MHz
	Output channel number	3 ~ 4
Physical Specification	Size (W X H X D)	235 X 45 X 200(mm)
	Weight (Net)	1.4kg



PANAREX INC. warrants to be free from defects in workmanship or materials for the period of one (1) year from the date of original purchase. This warranty does not cover other acts of God, damage, improper use, or faulty installation other than by the manufacturer.

PANAREX's liability under this warranty is limited to the replacement of the equipment returned to PANAREX at no charge.

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