

Digital
Receiver

CNX-*Mini*

The User's Manual

Please read this User's Manual Carefully
before installing this Receiver



Mini

Digital Satellite Receiver



Rev 1.0



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GENERAL SAFETY

WARNING

Please read the following recommended instructions carefully to avoid the risk of your physical injury before the product is operated.

Do not cover the receiver and keep clear space around the receiver for sufficient

Check the receiver's operation voltage 90~250V, 50Hz~60Hz Max, 40W
Keep liquid away from the receiver.

The receiver shall not be exposed to dripping or splashing and no objects that filled with liquid shall not be placed on the receiver.

Unplug the receiver from the wall outlet before cleaning.
Use a soft cloth and a mild solution of washing-up liquid to clean the casing.

Do not block the receiver's ventilation slots which are provided for ventilation and protection from overheating.

Please maintain the receiver in a free airflow.

Do not allow the receiver to be exposed to hot, cold or humid condition.

Do not use any cable and attachment that are not recommended as these may damage your equipment.

Please unplug the receiver from the wall outlet and disconnect the cable between the receiver and the antenna when you will not use it for long time.

Do not remove the cover to reduce the risk of electric shock.

Do not attempt to service the receiver yourself.

Refer all serving to qualified service personnel.

Manual may be updated as new features.

GENERAL INFORMATION

I. UNPACKING

Please ensure that the following items are included with the receiver in your packing.

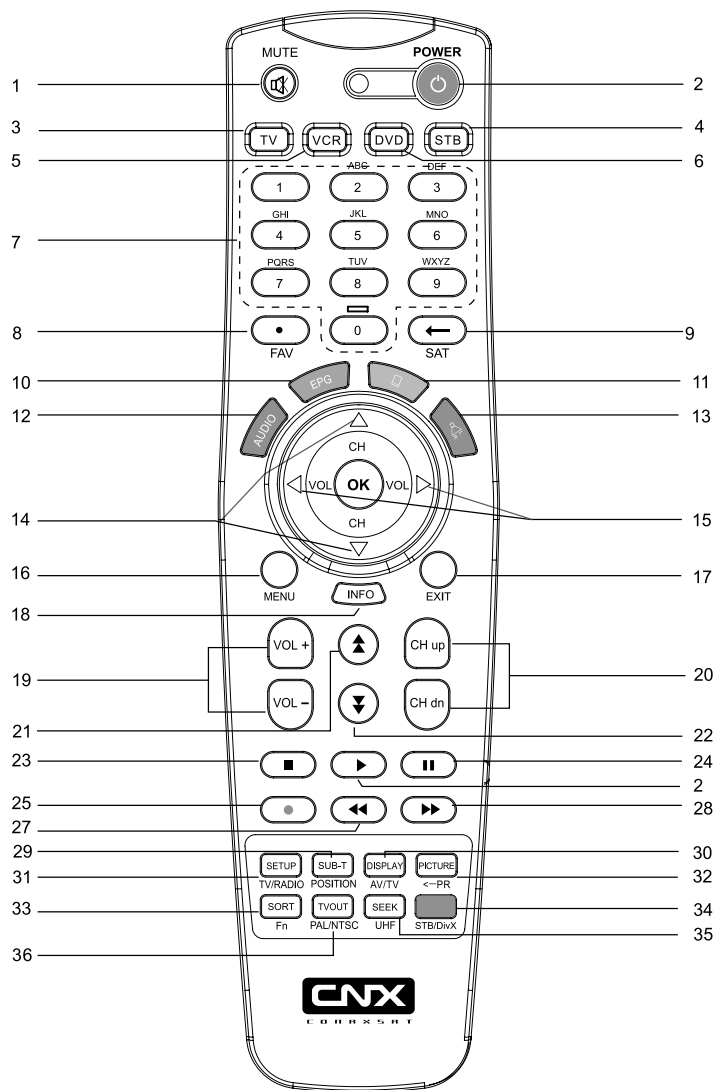
- 1) Remote Control Unit (RCU)
- 2) Batteries (2EA)
- 3) User's Manual
- 4) A/V Cable

II. FEATURES

- MPEG-2 Digital & Fully DVB-S compatible.
- DiSEqC 1.0, 1.2 and USALS Compatible.
- 5,000 Channels Programmable.
- Blind scan (Power Scan) & Powerful EPG.
- Picture In Graphic (PIG).
- Electronic Program Guide (EPG) for On Screen Channel Information.
- On-Screen Display with 65,536 Color.
- Dolby Digital Bitstream Out through S/PDIF.
- CVBS Video & Audio Output via RCA .
- Component Y/Pb/Pr Output via RCA.
- S-Video Output.
- "Upgrade Software & Update Channel Database through USB and RS232".
- MP3/JPEG File Play via USB.

GENERAL INFORMATION

III. REMOTE CONTROL UNIT (RCU)



GENERAL INFORMATION

III. REMOTE CONTROL UNIT (RCU)

- | | |
|-----------------------------------|--|
| 1. MUTE | Enables or disables the audio. |
| 2. POWER | Switches the receiver between operation and standby mode. |
| 3. TV | Tv mode |
| 4. STB | STB mode |
| 5. VCR | VCR mode |
| 6. DVD | DVD mode |
| 7. Numeric buttons | Selects the TV or Radio service channels and individual menu. |
| 8. FAV | Toggles the selected favorite mode. |
| 9. SAT | Toggles the selected Satellite list. |
| 10. EPG(Electronic Program Guide) | Displays the TV or Radio program guide. |
| 11. [Subtitle/Teletext icon] | Enables subtitle and teletext mode. |
| 12. Audio | Changes the audio languages. |
| 13. [Speaker icon] | Selects the sound mode(LEFT/RIGHT/STEREO). |
| 14. ▲▼ | Changes channels or moves to the item in the menu. |
| 15. ◀▶ | Adjusts the volume or moves to left or move item in the menu. |
| 16. MENU | Displays the main menu on screen. |
| 17. EXIT | Returns to the previous menu or normal viewing mode from a menu. |
| 18. INFO | Displays the program information box on the screen and edit the name of favorite channel list. |
| 19. V+/V- | Turns volume up or down. |
| 20. P+/P- | Changes channels up or down on normal mode. |
| 21. [Zoom In icon] | Moves up a page in the channel list. (Selects zoom in/out) |
| 22. [Zoom Out icon] | Moves down a page in the channel list. |
| 23. Stop | Stops recording or playing |
| 24. AUUSE | Pauses the playing picture or go to normal mode. |
| 25. Record | Record the program |
| 26. [Subtitle/Teletext icon] | Enables subtitle and teletext mode. |
| 27. Rewind | Starts reverse play back and changes teh speed of reverse playback. |
| 28. F/F | Starts fast forward or fast motion playback and changes the speed of forward playback. |
| 29. Position | Displays position bar on the screen to adjust the antenna. |
| 30. AV/TV | Selects the TV or AV mode. |
| 31. TV/RADIO | Switches between TV and Radio. |
| 32. <-PR | Selects the previously viewed channel. |
| 33. Fn | Reserved |
| 34. STB/DivX | Switches STB or DivX |
| 35. UHF | Switches to UHF turning mode. |
| 36. PAL/NTSC | Switches PAL or NTSC mode. |

GENERAL INFORMATION

III. REMOTE CONTROL UNIT(RCU)

Setting Method

1. 3 digits Setting Method

- 1) Turn on the TV.
- 2) Press the "TV" Key and "OK" at the same time for more than 2 seconds. Then, the TV LED will turn on/off 2 times.
- 3) Refer the TV Brand List and press the three numbers.
(TV LED will turn on/off 2 times. If the three numbers is wrong, TV LED turn on/off 1 time)
- 4) If there are a few of fixed numbers in the Brand, repeat the step 3) until the TV turns off.
- 5) If the TV turns off, press the "OK" key.
(If the setting is done properly, the LED of the RCU will turn on/off 2 times)

2. Auto Search Method

- 1) Turn on the TV.
- 2) Press the "TV" Key and "OK" at the same time for more than 2 seconds. Then, the TV LED will turn on/off 2 times.
- 3) Press the "UP" key until the TV turns off
(If you want to search from the reverse, press the "DOWN" key)
- 4) If the TV turns off, press the "OK" key.
(If the setting is done properly, the LED of the RCU will turn on/off 2 times)

3. How to check current setting number

- 1) Press the "TV" Key and "OK" at the same time for more than 2 seconds. Then, the TV LED will turn on/off 2 times.
- 2) Press the "Info" key within 3 seconds

- 6) Check if the POWER and other buttons of the RCU are working properly.
- 7) If the POWER button works but the other buttons does not work, start again from the step 1)
(In some Brands, other buttons except POWER can not work properly)
====> For VCR & DVD, same procedure as above
* If you don't press three numbers within 10 seconds, setting will be failed
* If you can not find the fixed number with the above method,

- 5) Check if the POWER and other buttons of the RCU are working properly.
- 6) If the POWER button works but the other buttons does not work, start again from the procedure 1)
(In some Brands, other buttons except POWER can not work properly)
====> For VCR & DVD, same procedure as above
* If you don't press three numbers within 10 seconds, setting will be failed

- 3) TV LED blinks to show the current setting number in order
(TV LED blinks 10 times to show '0')

Ex) If the current setting number is 350, the TV LED blinks 3 times, 5 times and 10 times
====> For VCR & DVD, same procedure as above

GENERAL INFORMATION

IV. FRONT PANEL

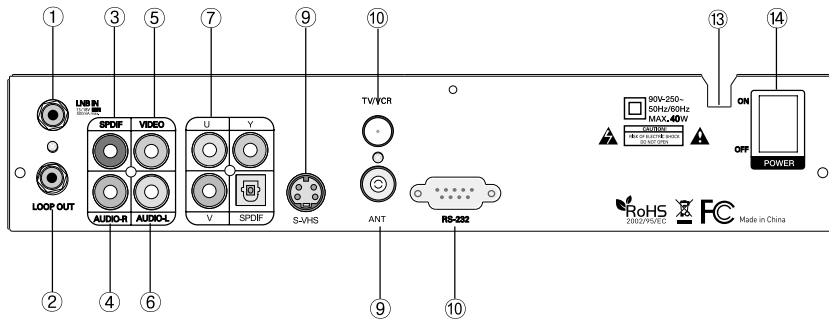


- | | |
|----------------|--|
| 1. POWER | Switches the receiver power On and Standby. |
| 2.CH Up/Down | Channel up / down or selects the item of Menu. |
| 3. VOL Up/Down | Volume up/down or selects the item of Menu. |
| 4. USB PORT | To upgrade firmware |

“ All USB 2.0 flash drive may not be compatible with the product”

GENERAL INFORMATION

V. REAL PANEL



- | | |
|------------------|---|
| 1. LNB IN | Connects to Satellite antenna cable. |
| 2. LNB OUT | Connects to another STB. |
| 3. DIGITAL AUDIO | Output for connecting to a digital amplifier. |
| 4. AUDIO-R | Connects to AUDIO RIGHT to TV or other equipment. |
| 5. VIDEO | Connects VIDEO to the TV or other equipment. |
| 6. AUDIO-L | Connects to AUDIO LEFT to TV or other equipment. |
| 7. YUV | Connects to TV the YUV jack of TV. |
| 8. DIGITAL AUDIO | Output for connecting to a digital amplifier. |
| 9. S-VIDEO | Connects to teh S-VHS jack of TV or VCR |
| 10. TV/VCR | Connects to TV or VCR. |
| 11. ANT | Connects to TV antenna input. |
| 12. RS 232 | Connects to personal computer for software upgrade. |
| 13. POWER SUPPLY | 90~250V AC, 50/60Hz, 40W. |
| 14. POWER BUTTON | Turns On/Off. |

INSTALLING EQUIPMENT

This section explains several ways of connecting the receiver to your existing TV, VCR and Hi-Fi system.

You can choose one of the following setups that we recommend.

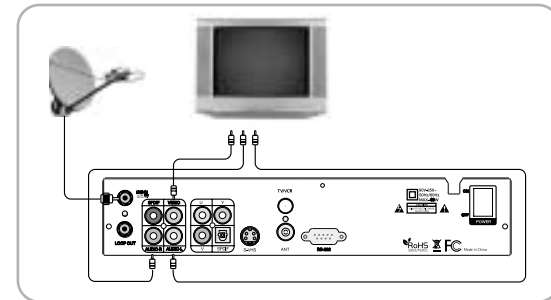
If you have any problem or need help, consult your dealer or service provider.

Please ensure that the following items are included with the receiver in your packing.

I. CONNECTING THE RECEIVER TO TV AND VCR WITH CINCH CABLE

I-1. Connecting the receiver to TV with the CINCH cable

Connect one end of the CINCH cable to the Audio-R(Red), the Audio-L(White) and the Video(Yellow) socket on the rear panel of the receiver and the other end to the Audio-R(Red), the Audio-L(White) and the VIDEO (Yellow) socket on the TV.

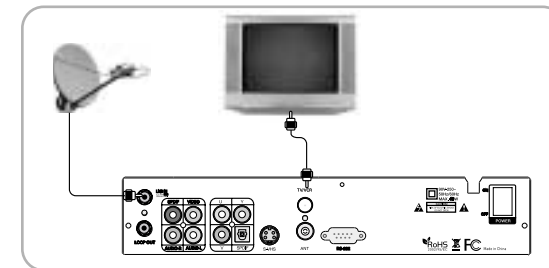


II. CONNECTING THE RECEIVER TO TV AND VCR WITH RF CABLE

II-1. Connecting the receiver to TV and VCR with RF cable

Connect one end of the RF cable TV/VCR socket on the rear panel of the receiver and the other end to the ANT IN on the TV.

Connect one end of the RF cable to the ANT socket on the rear panel of the receiver and the other end to the ANT OUT on the VCR.



CHANNEL LIST GUIDE

1. Normal Live Mode

- a) When you select one channel, information bar appears automatically on the screen for few seconds. This bar provides you the current channel information.
- b) Press INFO button to see the information during normal live mode.



2. Simple Channel List

- a) Press OK on the normal live mode to go to the channel list.
- b) When detail channel list is displayed on screen press RED button to go to simple channel list.

3. Detail Channel List

- a) Press OK on the normal live mode to go to the channel list.
- b) When simple channel list is displayed on screen press RED button to go to detail channel list.
- c) Press ◀▶ and ▲▼ to sort by Alphabet.
- d) Press SAT button to sort by Satellite and FAV button for Favorite 1-8.
- e) Press GREEN button to return to All Channel or EXIT to return to the current live channel.
- f) Press the SAT key to show Satellite Pop-UP Window then select satellite. Channel list of selected satellite will be displayed.
- g) Press the FAV key to show Favorite Pop-UP Window then select FAV list. Channel list of selected FAV will be displayed.
- h) Press the Green key then all searched channel list will be displayed.
- i) Press MENU key then cursor will move to ALL, placed on the left.
- j) Sort Key (Yellow Key)-A~Z/Z~A/FAT/CAS.
- k) Press Yellow key for sorting A~Z/Z~A/FAT/CAS. If you want to go back to unsort from the selected CAS go back to Pop-UP Window then select unsort.



CHANNEL LIST GUIDE

4. EPG (Electronic Program Guide)

- a) Press EPG button on the live mode.
- b) EPG of the current channel appears on the screen.
- c) Select the channel that you want to watch program.
- d) To reserve program with recording function, press REC(●) button.(PVR model only)
- e) It will be appear like rightside picture.f)

If you reserve program, then it will be record automatically at reserved time.(PVR model only)

- g) Press Select button twice to return to current live channel.



5. ZOOM IN/OUT

- a) By selecting page up key (▲) in a normal live mode you can use Zoom In/Out function.
- b) From the Pop-Up Window of Zoom function you can select(*2*3*4)by page up key(▲), for Zoom out press page down key.
- c) When you move cursor of Zoom focus by key (◀ ▶ ▲▼) then you can select Zoom In/Out on the focused point by pressing page up/down keys. Press Pause key then live mode will be paused on the mode of Zoom.



MENU GUIDE

Main Page

Press the MENU button on the RCU to open Main Page on the screen. Main Page will be displayed.

1. You can move into the main page using ▲▼◀▶ on the RCU.
2. Press OK to confirm your selection.
3. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

I. Channel Manager

II. Installations

III. Options

IV. Utility

V. Accessory

I. Channel Manager

This section may help you to organize channels according to your preference.

1. Select Channel Manager in the Main Page with ▲▼ and press OK.
2. TV Channel Manager Page displays on the screen.
3. Select the mode that you want using ◀▶.
4. To see the channel that you choose, go to the channel and then press RED button.
5. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

I-1. Favorite

I-2. Rename

I-3. Move

I-4. Lock

I-5. Delete

I-1. Favorite

1. Using ◀▶ go to the Favorite mode then press YELLOW button to choose Favorite 1~8.
2. Press OK on the channel that you want to add or delete.
3. ☆ will be marked at the end of selected channel name bar. To delete press OK again.
4. Selected channels will be automatically saved.
5. If you want to check the saved Favorite Channel List go to other mode(Rename-Delete) except Favorite and then press FAV button to check Favorite 1~8.
6. Press EXIT to return to the previous menu or press MENU to go to the current live channel.



MENU GUIDE

I. Channel Manager

I-2. Rename

1. Using ◀▶ go to the Rename mode.
2. Select the channel that you want to rename using ▲▼ and then press OK.
3. Keypad Dialog displays on the screen.
4. Edit the name entering NUMBERS and / or WORDS in the Keypad Dialog.
5. Press YELLOW button to rename Favorite 1~8 and press BLUE button to rename Satellite.
6. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

I-3. Move

1. Using ◀▶ go to the Move mode.
2. Select channels which you want to move by pressing OK key.
3. Move cursor that you want to place on than press GREEN button.
4. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

I-4. Lock

1. Using ◀▶ go to the Lock mode.
2. Select the channel that you want to lock and then press OK. 🔒 will be marked at the end of the selected channel name bar. To delete press OK again.
3. Press EXIT to go to Main Page or press MENU to go to the current live channel.

I-5. Delete

1. Using ◀▶ go to the Delete mode.
2. Select the channel that you want to delete and then press OK. 🗑️ will be marked at the end of the selected channel number. To delete press Blue button again.
3. Press YELLOW button to delete TP. Select one channel and press Blue button. All channels of that TP will be automatically selected.
4. Press YELLOW button to delete Satellite. Select one channel and press Blue button. All channels of that the Satellite will be automatically selected.
5. Press EXIT to return to the previous menu or press MENU to go to the current live channel.
6. Message Box displays on the screen.
7. Select OK on the Message Box and then press OK to delete the marked channels.



MENU GUIDE

II. Installation (Satellite)

This section may help you to set up antenna and scan satellite or transponder, etc. Select Installations in Main Page using ▲▼ and press OK. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

II-1 Channel Search

II-2. DiSEqC Switch

II-3. Motor Setup

II-1 Channel Search

1. You can move the cursor using ▲▼ and press OK when you select the value that you want.

a) Satellite

- Press OK to display the Satellite List Box.
- Select the proper Satellite and then press OK.

b) DiSEqC

- Press OK to display the DiSEqC Port List.
- Select the proper DiSEqC port and then press OK.

c) Frequency

- Press OK to display the Frequency List.
- Select the proper Frequency and then press OK.

d) LNB

- Press OK to display the LNB Frequency List.
- Select the proper LNB Frequency and then press OK.
- You can also input directly the numbers using NUMBER KEY on the RCU.

e) 22KHz Tone

- Select the one among None, 0 KHz or 22 KHz depending on the user's antenna switch box.

f) Search Option

- Press OK to display the Search Option list.
- Select the Search Option that you want and then press OK.



g) Search

- Press Search to start scan channels.
- Selected Satellite displays on the screen.
- Press ► to select more Satellite or ◀ to cancel the selected Satellites.
- Press OK to start scanning.

※ TP EDIT : To Edit TP, Press the RED button on the RCU.

MENU GUIDE

II. Installation (Satellite)

II-2. DiSEqC Switch

1. Select Channel Search in Installation using ▲▼ and press OK.

- If you select DiSEqC Switch and press OK on the menu will be, DiSEqC Switch Page will be displayed.
- Select the proper Satellite of each DiSEqC port [A-D] using ◀▶ and ▲▼ and press SEARCH. Selected Satellites will be searched automatically.

II-3 Motor Setup

1. You can move the cursor using ▲▼ and press OK when you select the value that you want.

a) Motor Type : DiSEqC 1.2, USAL

- Press OK to display Motor Type
- Select the proper Motor Type and then press OK.

b) Satellite

- Press OK to Display the Satellite List Box
- Select the proper Satellite and then press OK.

c) Switch & LNB

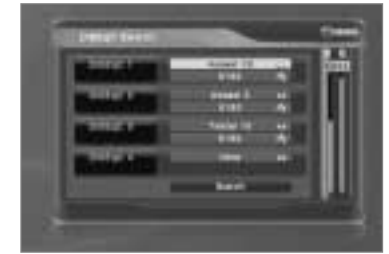
- Press OK to Display the LNB frequency list or Switch Setting
- Select proper LNB & proper Switch.

d) Frequency

- Press OK to Display the Frequency List.
- Select the proper Frequency and then press OK.

e) Motor Movement

- Search the appropriate position of the selected Satellite using ◀▶.



MENU GUIDE

II. Installation (Satellite)

e) Motor Control

Select the position using ◀ ▶ and then press OK. Message box displays on the screen.

- Store Sat position : Stores the current position of the motor for the selected satellite.
- Goto Sat Position : Moves the motor to the stored position of the selected satellite.
- Goto 0 : Goes to the center of the motor.
- Reset Position : Resets all stored position of the motor.



f) Satellite Position

- Input directly the position using NUMBER KEY on the RCU
- Select the direction using ◀ ▶ (WEST / EAST).

h) Search

- Press Search to start scan channels.
- Press OK to start scanning.

g) Search Option

- Press OK to display the Search Option list.
- Select the Search Option that you want and then press OK.

※ TP EDIT : To Edit TP Press the RED button on the RCU.

2. Edit my local position

- Press Green Button to edit local Position.

a) Longitude

- Input directly the Longitude using NUMBER KEY on the RCU.
- Select the direction using ◀ ▶ (WEST / EAST).

b) Latitude

- Input directly the Latitude using UNMBER KEY on the RCU.
- Select the direction using ◀ ▶ (NORTH/SOUTHd).

3. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

MENU GUIDE

III. Options

This section may help you to set up OSD language, time , etc. Select Options in Main Page using ▲▼ and press OK.

Press EXIT to return to the previous menu or press MENU to go to the current live channel.

- III-1. OSD Setup
- III-2. Control Panel
- III-3. Time Adjust
- III-4. Parental Lock

III-1. OSD Setup

1. Select OSD Setup in Options using ▲▼ and press OK.

a) OSD Language

- Press OK to display OSD Language list.
- Select the language that you want and then press OK.

b) Audio Language

- Press OK to display Audio Language list.
- Select the language that you want and then press OK.

c) Display Info Bar

- Press OK to display Display Info Bar time list.
- Select the second that you want to display and then press OK.

d) OSD Position

- Press OK to change Horizontal and Vertical Position of the OSD.
- OSD Position box displays on the screen.
- Select Hor Position / Ver Position using ▲▼.
- Move the OSD Position to right/left or up/down using ◀ ▶.
- Select OK on the OSD Position box and then press OK.

e) Screen format

- Press OK to display screen format list.
- Select the format that you want and then press OK.

2. Press EXIT to return to the previous menu or press MENU to go to the current live channel.



MENU GUIDE

III. Options

III-2. Control Panel

1. Select TV Setup in Options using ▲▼ and press OK.
 - a) Video Output
 - Press OK to display Video Output list.
 - Select RGB if your SCART supports RGB control and then press OK.
 - Select CVBS if your SCART does not support RGB control and the press OK.
 - b) TV Type
 - Press OK to display TV Type list.
 - Select the proper mode according to your TV type and press OK.
 - c) UHF Channel
 - Press OK to display UHF Channel list.
 - Select the proper channel and then press OK.
 - d) UHF Standard
 - Press OK to display UHF Standard list.
 - Select the proper mode and then press OK.
2. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

III-3. Time Adjust

Set your local time according to your location.

1. Select Time Setup in Options using ◀▶ and press OK.
2. Time Adjust page displays on the screen.
3. Move the cursor using ◀▶, ▲▼ and press OK when you select the value that you want. (Input Hour directly using number keys on the RCU)
4. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

III-4. Parental Lock Setup

1. Select Parental Lock Setup in Options using ◀▶ and press OK.
2. Parental Lock Page displays on the screen.
3. You can lock and unlock Parental Lock selecting ON or OFF using ▲▼ (For Channels).
4. You can lock and unlock Install Lock selecting ON or OFF using ▲▼ (For Installation Settings).
5. Enter new password if you want to change the current password.
6. Confirm your new password entering new password again.
7. Press EXIT to return to the previous menu or press MENU to go to the current live channel.

Note. DEFAULT PASSWORD IS 0000



MENU GUIDE

VI. Utility

This section may help you to use USB, etc.
Select Utility in Main Page using ▲▼ and press OK.

- VI-1. System Information
- VI-2. USB
- VI-3. Factory Default

VI-1. System Information

This option help you to know the current S/W and H/W version. Also provides you the product name.

1. Select System Information in Options using ▲▼ and pres OK.
2. Press EXIT to return to the previous menu.

VI-2 USB

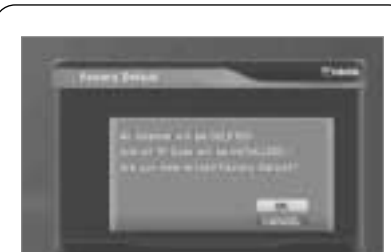
The receiver is equipped with host.

1. Select USB in Utility with ▲▼ and press OK.
2. If you want to change mode(S/W Upgrade, BootLoader Upgrade), press RED button on the RCU.
3. Select the file which you want to upgrade using ▲▼ and press OK.
4. After downloading the selected file, the receiver will reboot automatically.

VI-3 Factory Default

Use Factory Default function only when you want to return the receiver to the condition of factory default. All settings and channels will be deleted.

1. Select Factory Default in Installations using ▲▼ and press OK.
2. Message box displays on the screen.
3. Select OK to return the receiver to the condition of factory default and then press OK.
4. Press EXIT to return to the previous menu or press MENU to go to the current live channel.



TROUBLESHOOTING

Problem	Solution
Nothing appears on the Front Panel or No power supply	<ul style="list-style-type: none"> Check that the power cable is plugged into the power socket.
No Picture	<ul style="list-style-type: none"> Check the dish and adjust it. Check the cable connection and correct it. Get out of UHF mode. Check channel and video output.
No Sound	<ul style="list-style-type: none"> Check the volume level of the TV and receiver. Check the mute status of TV and receiver. Check the cable connection and correct.
Remote Control Unit dose not work	<ul style="list-style-type: none"> Replace batteries. Aim the remote control unit directly to the receiver. Checking that nothing blocks the front panel.
Service is not running or scrambled	<ul style="list-style-type: none"> Check the Conditional Access Module and smart card are appropriate for the selected service. Check the Conditional Access Module and smart card are correctly inserted or not.
"No Signal" on the screen	<ul style="list-style-type: none"> Check the signal strength and the signal quality in the menu. Check the LNB and replace the LNB if necessary. Check the LNB cable. Check the Dish and adjust it.
Tuner Defective Check	<ul style="list-style-type: none"> Go to the Option and select System Information.
You have forgotten your secret PIN Code	<ul style="list-style-type: none"> Contact your Service Provider.

SPECIFICATIONS

I. Conditional Access Module Interface

Item	Specification
SMART CARD	1 SLOT, ISO 7816, GSM11.11 and EMV (payment systems) compatibility

II. Tuner & Channel

Item	Specification
Input Connector	F-type (Output loop-through), IEC 169-24, Female
Signal Level	-25 to -65 dBm
LNB Power &	Vertical: +13.5/18.5Vdc±5%,
Polarization	Horizontal : +18.5Vdc±5% Current : Max. 500mA. Overload protected
22KHz Tone	Frequency : 22±2KHz
DiSEqC Control	Amplitude : 0.8±0.2V Version 1.2, USALS Compatible
Demodulation	QPSK
Input Symbol Rate	2-45 Ms/s Convolution Code Rate 1/2, 2/3, 3/4, 5/6, 7/8 with Constraint Length K=7

III. A/V & Data Input/Output

Item	Specification
RCA Output	CVBS(Yellow), L, R Output(White,Red) with Volume Control Component Video Output
SPDIF	Dolby Digital Bitstream Out (Coaxial, Optical)
Data Interface	RS-232, Transfer rate 115Kbps, 9 pin D-Sub Male Type USB : USB 2.0, Type A Connector

IV. RF-Modulator

Item	Specification
TV Standard	NTSC
RF Connector	75 Ohms, F-type
Frequency Range	VHF CH3, CH4

SPECIFICATIONS

V. MPEG Transport Stream & A/V Decoding	
Item	Specification
Transport Stream	MPEG-2 ISO/IEC 13818 / Transport stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	Max. 90 Mbit/
Video Resolution	720 × 576(PAL) / 720 × 480(NTSC)
Audio Decoding	MPEG/Musicam Layer I & II
Audio Mode	Single channel/Dual channel Joint Stereo/Stereo
Teletext	VBI & OSD
Sampling Rate	32, 44.1 and 48KHz

VI. System Resources

Item	Specification
Main Processor	ARM946 RISC Processor
Flash Memory	4 Mbyte
Program DRAM	32 Mbyte
Channel Capacity	Digital Channel: 5,000
Front	7-Segment Display (4-digit)

VII. Power Supply

Item	Specification
Input Voltage	AC 90 to 240V, 50 ~ 60Hz
Power Consumption	Max. 40W
Protection	Separate Internal Fuse
Type	SMPS

VIII. Physical Specification

Item	Specification
Size(W × H × D)	290 × 50 × 220(mm)
Net Weight	2.0Kg

BRAND LIST

I. Televisions

Brand Name	3 Digits
ADMIRAL	072 081 160 161
A MARK	112
AKAI	070 146
AMSTRAD	052
ANAM	043 054 056 080 112
AOC	001 058 070 112
AUDIOVOX	076 120
BLAUPUNKT	088
CANDLE	001 003 004 070
CAPEHART	058
CCE	001 024 211
CETRONIC	043
CITIZEN	001 003 004 043 070 101 103
CLASSIC	043
CONCERTO	001
CONTEC	043 050 051
CRAIG	043 054 191
CROWN	043
CURTIS MATHES	001 070 101
CXC	043
DAEWOO	001 004 016 026 043 076 103 114 120 127 128 136 192
DAYTRON	001
DYNASTY	043
ELECTROHOME	024 076 120
EMERSON	001 005 028 043 047 048 050 051 070 076 096 120 153 154 155 191
FISHER	007 057
FUJITSU	198
FUNAL	028 043

BRAND LIST

FUTURETECH	043
GE	001 008 009 034 056 070 073 074 130 145 155 160 161 165 167
GOLDSTAR / LG	001 017 106 110 112 119 127 193
GRADIENTE	001 106
HALL MARK	001
HITACHI	001 007 009 010 011 012 072 158
HYUNDAI	002
INFINITY	164
JBL	164
JCPENNEY	001 008 009 024 030 070 101 160
JENSEN	013
JVC	034 083 211
KEC	043
KENWOOD	070 211
KLOSS	004 059
KTV	043 070 154
LODGENET	072
LOGIK	072
LAUXMAN	001
LXI	007 015 052 081 160
MAGNAVOX	001 003 022 059 060 061 070 127 160 164
MARANTZ	070 164
MATSUI	164
MEMOREX	001 007 072
METZ	088
MGA	001 024 024 028 042 070
MINERVA	088
MITSUBISHI	001 024 028 040 042 146
MTC	001 070 101
NAD	015 025
NEC	

BRAND LIST

NIKEI	043
ONKING	043
ONWA	043
OPTONICA	019 081
ORION	201 202 203 204 205
PANASONIC	034 056 080 164
PHILCO	001 003 024 056 059 060 070 164
PHILIPS	001 003 005 059 070 093 127 164
PIONEER	001 018 025 070
PORTLAND	001
PROSCAN	145 160 161 167
PROTON	001 058 112 171 173
QUASAR	034 056 080 164
RADIO SHACK	001 019 043 127
RCA	001 024 056 070 074 145 152 160 161 165 167
REALISTIC	007 019 043 047
RUNCO	072 130
SAMPO	001 058 070 207
SAMSUNG	001 006 021 050 089 101 105 127 133 160
SANYO	007 020 053 057 082
SCOTT	001 028 043 048
SEARS	001 007 015 028 030 057 082 160 167
SELECO	200
SHARP	001 014 019 022 028 081
SIEMENS	088
SIGNATURE	072
SONY	027 029 079 126 211
SOUNDESIGN	001 003 028 043
SPECTRICON	112
SSS	001 043
SUPRE MACY	004

BRAND LIST

SYLVANIA	003 044 059 060 070 127 160 164
SYLVANIA	194 052
TANDY	081
TATUNG	056
TECHNICS	034 080
TECHWOOD	001
TEKNIKA	001 003 004 024 028 043 072 101
TELERENT	072
TERA	173
TMK	001
TOSHIBA	007 015 030 040 101
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDTECH	001
WARDS	001 008 009 019 028 060 061 072 074 164 165
WESTING HOUSE	076 120
YAMAHA	001 070
YORK	001
YUPITERU	043
ZENITH	072 073 095 103
ZONDA	112

BRAND LIST

I. Videos	
Brand Name	3 Digits
AIWA	001
AKAI	016 043 046 124 125 146
AMPRO	072
ANAM	031
AUDIO DYNAMICS	012 023 039 043
BROOKSONIC	035 037 044 129 152
CANON	028 031
CAPEHART	108
CRAIG	003 040
CURTIS MATHES	031 156
DEAWOO	005 007 010 108 110 112 116 117 119
DAYTRON	108
DIMENSIA	156
DBX	012 023 039 043
DYNATECH	001 053
ELECTROHOME	059
EMERSON	001 006 017 025 027 029 031 035 036 037 044 046 101 129 131 138 152 153 157
FISHER	003 008 009 010
FUNAI	001
GE	031 072 144 147 151 156
GO VIDEO	040 132 136
GOLDSTAR / LG	012 101 123 163 114
HARMAN KARDON	012 045
HITACHI	001 026 137 150 156 163
HUGHES	163
INSTANTREPLAY	031
JCL	031
JCPENNY	012 040 066 101 156 163
JENSEN	043

BRAND LIST

JVC	012 031 043 130 150
KENWOOD	001 014 023 047
LLOYD	001
LXI	001 003 009 017
MAGIN	040
MAGNAVOX	001 031 067 068 154
MARANTZ	012 023 031 067 067 069
MARTA	101
MATSUI	027 030
MEI	031
MEMOREX	001 003 010 014 031 053 072 101 102 134 139
MGA	045 046 059
MINOLTA	156 163
mitsubishi	045 046 051 059 061 162 163
MTC	001 040
MULTITECH	001 024
NEC	001 024
NORDMENDE	043
OPTONICA	053 054
PANASONIC	031 066 070 133 161
PENTAX	031 156 163
PHILCO	001 031 067
PHILIPS	001 031 054 067 071 101
PILOT	101
PIONEER	021 163
PORTLAND	108
QUARTZ	002 014
QUASAR	031 066 070 133 161
RADIO SHACK	123
RCA	001 031 040 140 144 147 151 156 163
REALISTIC	001 003 008 010 014 031 040 053 054 101

BRAND LIST

RICO	058
SALORA	014
SAMSUNG	032 034 040 104 112 113 115 120 122 125
SANSUI	159 022 043
SANYO	003 007 010 014 102 134
SCOTT	017 037 044 112 129 131 159
SEARS	003 008 009 010 014 017 081 101 163
SHARP	031 053 054
SHINTOM	024
SIGNATURE	001
SONY	003 031 052 056 057 058 155
SOUNDESIGN	001
STS	163
SYLVANIA	001 031 059 067
SYMPHONIC	001
TANDY	001 010
TATUNG	023 039 043
TEAC	001 023 039 043
TECHNICS	031 070
TEKNIKA	001 019 031 101
TMK	006
TOSHIBA	008 042 047 059 082 112 131 163
TOTEVISION	040 101
UNITECH	040
VECTOR RESEARCH	012
VIDEO CONCEPTS	001 012 046
VIDEOSONIC	040
WARDS	001 003 017 024 031 040 053 054 131 163
YAMAHA	001 012 039 043
ZENITH	001 056 058 072 080 101

BRAND LIST

II. DVD	
Brand Name	3 Digits
Alpine	009
Apex Digital	075 076 061
Brandt	001
California Audio	002
Crown	001
Cytron	001
Denon	030 043 044 226 062
Diamond	001
Dual	001
DVD-Video	063
ECA	084
Ferguson	001
Fisher	002
GE	035 084
GoldStar / LG	028 041 069
Goodmans	001
GRADIENTE	064 065
Grundig	001
Harman Kardon	217 066 067
Hitachi	011
Kenwood	060 068
Koss	001
Lenco	001
Lifetec	001
Magnavox	008 038 048 057
MARANZ	070
Matsui	001
Medion	001
Mitsubishi	032 057
Mx Onda	001

BRAND LIST

NAD	057 077
Onkyo	207 071 072
Oritron	001
Panasonic	002 003 039 051 054 079 073
Philips	038 048 074
PROCEED	083
Proline	001
Pioneer	055 057 085
Proscan	035
QUASAR	002
RCA	035 001
Saba	001
Samsung	040 047 065
Sanyo	052
Schneider	001
Scott	001
Sharp	060 078
Standard	001
Sony	037 050 053 086
Technics	002 051 054 079
Tensai	001
Tevion	001
THOMSON	084
Toshiba	038 060 206 072 080 081
Yamaha	039 045 059 079 073 082
Zenith	028 041 069

