



The User's Manual

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

Technology you can count on!

Digital Satellite Receiver



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DivX

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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 AC 90~240V, 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/options are added. For mor detail information, Please visit Conaxsat.com

GENERAL INFORMATION

I. UNPACKING

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

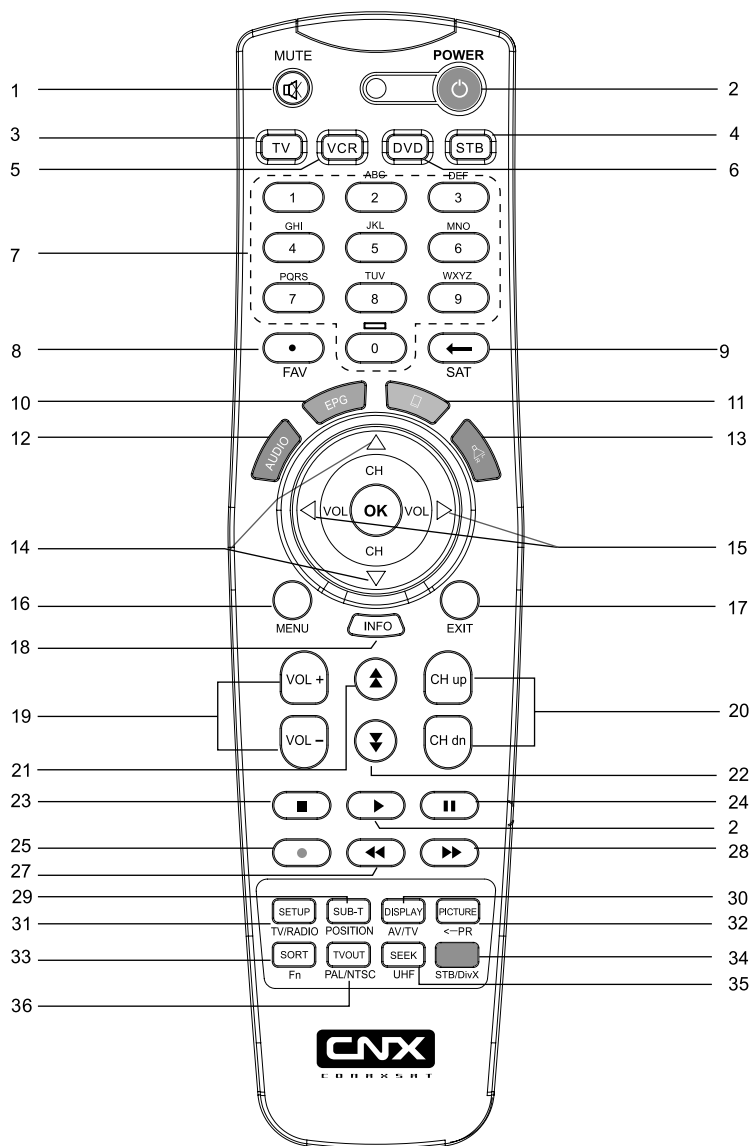
- 1) Remote Control Unit (RCU)
- 2) Batteries (2EA)
- 3) User's Manual
- 4) A/V Cable

II. FEATURES

- MPEG-2 Digital & Fully DVB-S Compliant
- On-Screen Display with 65536 Color Full Resolution
- Powerful EPG
- Blind search(Power Scan)
- DiSEqC Control version 1.0, 1.2 and USALS compatible
- Renameable 8 Favorite Channel Groups
- Total 5,000 Channels Programmable
- MP3 File Store and Play by USB 2.0
- Upgrade Software & Update Channel Database through USB 2.0 Port
- Various kinds of Image File Display
- Dolby Digital Bitstream Out through S/PDIF
- CVBS via RCA, Component Y/Pb/Pr and S-VHS Output
- Universal Remote Control

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 **📺** Enables subtitle and teletext mode
- 12 **Audio** Changes the audio languages
- 13 **🔊** 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 **▲** Moves up a page in the channel list. (Selects zoom in/out)
- 22 **▼** Moves down a page in the channel list
- 23 **Stop** Stops recording or playing
- 24 **Pause** Pauses the picture or back to normal picture
- 25 **Record** Records the program
- 26 **Play** Displays file lists and plays slow/normal
- 27 **Rewind** Starts reverse playback and changes the 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 previous viewed channel
- 33 **Fn** Reserved
- 34 **STB/DivX** Switches STB or DivX
- 35 **UHF** Switches RF CH3, CH4
- 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,

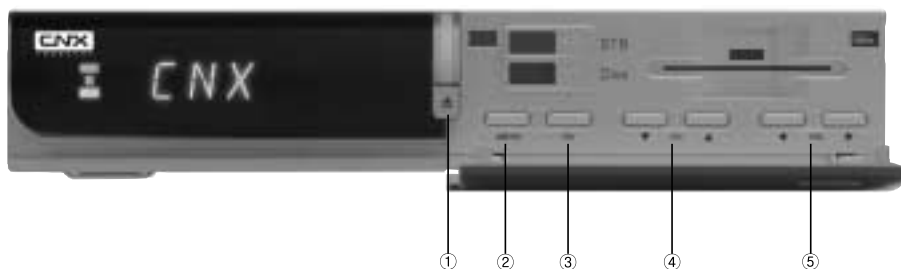
- 5) Check if the POWER and other buttons of the RCU are working properly.
- 6) If the POWER button works but the other buttons does not work, start again from the procedure 1)
(In some Brands, other buttons except POWER can not work properly)
====> For VCR & DVD, same procedure as above
- * If you don't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

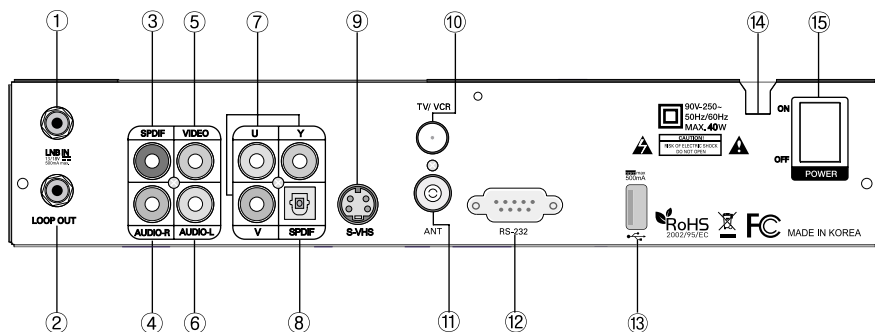
IV. FRONT PANEL



- | | |
|----------------------|--|
| ① POWER | Switches the receiver power On and Standby. |
| ② MENU | Gets into Main Page screen. |
| ③ OK | Executes the selected item. |
| ④ CH Up/Down | Channel up/down or selects the item of Menu. |
| ⑤ VOL Up/Down | Volume up/down or selects the item of Menu. |

GENERAL INFORMATION

V. REAR 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 AUDIO RIGHT to TV or other equipment. |
| ⑤ VIDEO | Connects VIDEO to the TV or other equipment. |
| ⑥ AUDIO-L | Connects AUDIO LEFT to TV or other equipment. |
| ⑦ YUV | Connects to the YUV jack of TV. |
| ⑧ DIGITAL AUDIO | Output for connecting to a digital amplifier. |
| ⑨ S-VIDEO | Connects to the S-VHS jack of TV. |
| 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 USB | Connects to USB device. |
| ⑭ POWER SUPPLY | 90 ~ 250V AC, 50 / 60Hz, 40W. |
| ⑮ POWER BUTTON | Turns On/Off. |

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.

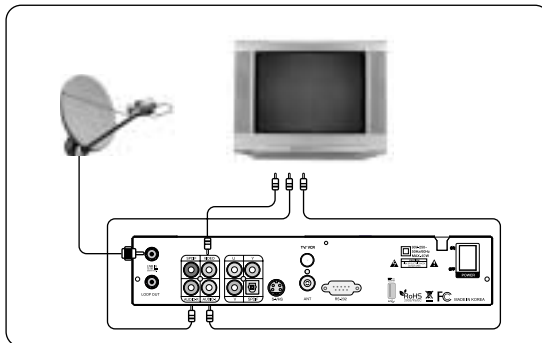
If you have any problem or need help, consult your dealer or service provider.

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.

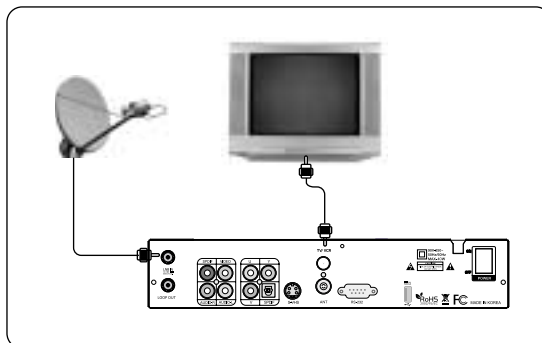


II. CONNECTING THE RECEIVER TO TV AND VCR WITH RF CABLE

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

Connect one end of the RF cable to the 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

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



2. Simple Channel List

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

3. Detail Channel List

- Press OK on the normal live mode to go to the channel list.
- When simple channel list is displayed on screen press RED button to go to detail channel list.
- Press ◀▶ and ▲▼ to sort by Alphabet
- Press SAT button to sort by Satellite and FAV button for Favorite 1~8.
- Press GREEN button to return to All Channel or EXIT to return to the current live channel.
- Press YELLOW button to sort by all type



4. TV Channel List

- Press the SAT key to show Satellite Pop-Up Window then select satellite. Channel list of selected satellite will be displayed.
- Press the FAV key to show Favorite Pop-UP Window then select FAV list. Channel list of selected FAV will be displayed.
- Press the Green key then all searched channel list will be displayed.
- Press MENU key then cursor will move to ALL, placed on the left. Then you will be able to sort channel list which you selected.
- Sort Key (Yellow Key)- A~Z/Z~A/FTA/CAS
- Press Yellow key for sorting A~Z/Z~A/FTA/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

5. EPG (Electronic Program Guide)

- Press EPG button on the live mode.
- EPG of the few channels appears on the screen.
- Select the channel that you want to watch program.
- To reserve program with recording function, press REC(●) button.
- It will be appear like right side picture.
- If you reserve program, then it will be record automatically at reserved time.
- Press Select button twice to return to current live channel.



6. Power EPG with Storage.

- If you have storage (HDD, USB memory Stick), then you can use Power EPG.
- To use Power EPG, Set ON with Power EPG option, in OSD Setup menu.
- You need to connect storage to your box, it is ready to use Power EPG.



When you go to standby mode to sleep or to go out, EPG data will be received and store in your storage.

When you watching TV channel, you can see scheduled program guide in Program Guide menu.

6. ZOOM IN/OUT

- By selecting page up key (▲) in a normal live mode you can use Zoom In/Out function.
- 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.
- 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



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 then 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 on the selected channel number. To delete press OK again.
3. Press YELLOW button to delete TP. Select one channel and press OK. All channels of that TP will be automatically selected.
4. Press BLUE button to delete Satellite. Select one channel and press OK. All channels of that 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. Antenna Type Select

II-3. Factory Default

II-1. Channel Search

1. Select Channel Search in Installations using ▲▼ and press OK.
2. a) From Factory Default Mode, Antenna Type Select box displays on the screen automatically.
 - b) Select Antenna Type using ◀▶. (Normal, DiSEqC Switch, DiSEqC 1.2 or USALS)
 - c) If you select DiSEqC Switch and press OK on the Antenna Select Type box, DiSEqC Switch Page displays automatically.
 - d) Select the proper Satellite of each DiSEqC port(A~D) using ◀▶ and ▲▼ and press SEARCH. Selected Satellites will be searched automatically.
 - e) If you select Normal, DiSEqC 1.2 or USALS and press OK on the Antenna Select Type Box, Antenna Setup Page displays on the screen.
3. You can move the cursor using ▲▼ and press OK when you select the value that you want.
- 3-1. Antenna Setup Page 1 (Normal / DiSEqC Switch)
 - 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.



MENU GUIDE



II. Installation

Satellite

- 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) 22KHzTone
 - 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 Satellites or ◀ to cancel the selected Satellites.
 - Press OK to start scanning.
- h) Edit
 - To Edit TP press the RED button on the RCU.



3-2 Antenna Setup Page 2 (DiSEqC 1.2)

- a) Satellite
 - Press OK to display the Satellite List Box.
 - Select the proper Satellite and then press OK.
- b) Frequency
 - Press OK to display the Frequency List.
 - Select the proper Frequency and then press OK.
- c) 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.
- d) 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).

g) Search Option

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

h) Search

- Press Search to start scan channels.
- Selected Satellites displays on the screen.
- Press ▶ to select more Satellites or ◀ to cancel the selected Satellites.
- To Edit TP press the RED button on the RCU.
- Press OK to start scanning.



3-3 Antenna Setup Page 3 (USALS)

a) Satellite

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

b) Frequency

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

c) 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.

d) 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).

g) Longitude

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

h) Latitude

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

i) Search Option

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

j) Search

- Press Search to start scan channels.
- Selected Satellite displays on the screen.
- Press ▶ to select more Satellites or ◀ to cancel the selected Satellites.
- To Edit TP press the RED button on the RCU.
- Press OK to start scanning.

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



MENU GUIDE



II. Installation

Satellite

II-2. Antenna Type Select

Use Antenna Type Select function when you want to change the adjusted configuration.

1. Select Antenna Type Select in Installations using ▲▼ and press OK.
2. Select Antenna Type using ◀▶ .
(Normal, DiSEqC Switch, DiSEqC 1.2 or USALS)



II-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.



II-4. LNB Power

1. Select LNB Power in Installations using ▲▼ and press OK.
2. Select ON or OFF using ◀▶ or OK button.
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. TV Setup

III-3. Time Setup

III-4. Parental Lock Setup

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) Subtitle Language

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

d) Display Info Bar

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

e) 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.

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. TV Setup

1. Select TV Setup in Options using ▲▼ and press OK.
 - a) RF Channel
 - Press OK to display RF Channel list.
 - Select the proper channel and then press OK.
 - b) Channel Change Mode
 - Press OK to display Channel Change Mode.
 - 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 Setup

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.



MENU GUIDE

III. Options

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



Technology you can count on!
Digital Satellite Receiver

MENU GUIDE



IV. Utility

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

IV-1. System Information

IV-2. USB

IV-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 press OK.
2. Press EXIT to return to the previous menu.

IV-2. USB

The receiver is equipped with USB host.

1. Select USB in Utility with ▲▼ and press OK.
2. Select the file which you want to upgrade using ▲▼ and press OK.
3. After downloading the selected file, the receiver will reboot automatically.



TROUBLESHOOTING

Problem	Solution
Nothing appears on the Front Panel No power supply	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. - Check Tuner : When 'SZVO' changed to 'TUERRVO' Tuner is defective.
You have forgotten your secret PIN Code.	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	VFD Display (3 Icon, 5 digit Alphanumeric)

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

PRODUCT DESCRIPTION

CNX product is a new concept of multimedia player device that connects (movie, music, image,..) files to external display such as TV with USB2.0 host interface.

Users can enjoy digital contents from various multimedia file, using an USB 2.0 external storage memory device(external HDD, USB memory..) in connection with the PC.

PRODUCT FEATURES

CNX product is a entertainment device that you can play all kinds of file like movie, music, and image on TV.

- Use for multimedia MPEG (DivX, Xvid, DAT, VOB, MPG, MPEG) files with connection to TV
- Play digital photo album with JPEG file format.
- Play digital music box with MP3, AC3, Ogg vorbis and WMA file format.
- Support USB 2.0 interface for external memory storage
- Upgrade the Firmware in a simple way through USB2.0 & Homepage.
- Read the multimedia data at high-speed by supporting the USB2.0 external storage device.

WARNINGS FOR USE AND SAFETY

Before using this product, please read carefully the user manual first and use product safely.

1. The contents like software, sound source, image are protected according to the related copyright and regulation. The users who violates this regulations are responsible for the infringement of the copyright.
2. This product does not support all the media file. Please check out the kind of codec using test program. Some part of files might not function due to the characteristics of the files and environment of use.
You can check out whether it is the playable media file or not, using freeware utility. Users can use media conversion program to convert it into playable media file.
3. Do not damage or drop it. This will lead malfunction.
4. Do not insert any other substances like coins and hair pins.
5. Do not disassemble the product while the power code is on.
This will lead malfunction and electric shock.
6. Do not move the product while it is activated. This may damage the external memory storage.
Only move the product while the power code is off.
7. Do not allow any water or liquids enter into the interior. If any kinds of liquids enter, turn off the power.
Otherwise it might lead electric shock or fire.
8. The use chemicals and cleanser will lead damage.
9. Do not expose this product under near heat source.
It may cause malfunction.
10. Do not put the product near the magnetic product such as speakers or magnets. This may erase the data in the product.
11. Watching for long time and hearing with high sound may damage on your sight and hearing.
12. If you see smoke or smell anything, turn off the product and plug out the power cord and ask for the customer service.
13. Do not turn off the power while you are using it.
After using it, turn off the power.

PRODUCT SPECIFICATIONS

Product Name	CNX multimedia player	
Supported File Formats Movie	Movie	MPEG-1/2, MPG, MPEG, DAT, VOB, AVI (DivX 3.x/4.x/5.x, XviD(Except GMC or Qpel option applied file)
	Music	MP3, WMA, OGG Vorbis, AC3
	Photo	JPEG
Main chip set	EM8511 (sigma design), Arm9 266MHz, 32MB SRAM	
Audio Output	2CH Analog, Digital audio output(AC3, DTS pass though)	
USB Interface	USB2.0 Host, USB1.1 compatible	
HDD file system	FAT32, NTFS	
TV type	NTSC	
The range of temperature	0 ~ 60j	

SETUP MENU

Setup menu screen of CNX multimedia player is as following.

Left white items are Showing setting items.

Middle yellow items are showing currently configured values. Right white items shows alternative options can be set for the selected menu item.

Alternative options for each items are as followings.



Audio output :

- Analog/DPCM : Outputs Analog 2ch/PCM data.
(composite cable audio signal)
- Encoded Digital : Output digital audio data.

Video Output :

- CVBS & S-Video : Outputs composite signal in NTSC method.
S-video output is also supported.
- Component & CVBS : Outputs composite and 480i component signal in NTSC method.
S-video output is not supported
- Component 480p : Outputs component in 480 progressive method.
Composite and S-video output is not supported.
- Component 720p : Outputs component in 720 progressive method.
Composite and S-video output is not supported.
- Component 1080i : Outputs component in 1080 interlaced method. In this mode, still image can be shaking because of the characteristic of interlaced method.
Composite and S-video output is not supported.

TV Type :

- 4:3 Letter Box : Horizontal ratio of the videos has higher priority to fit into the screen size.
This mode might have black strap on the top and the bottom of the screen, and shows the video in wide format.
- 4:3 fan & scan : Vertical ratio of the videos has higher priority to fit into the screen size.
Full screen can be viewed, but left and right sides of the image can be cut little.
- 16:9 Full screen : screen ratio comes out with 16:9 mode.

SETUP MENU

Slide Show time :

- 1,3,5,7,10,20 sec, Off : Configure the slide show interval for the JPEG files.
Press the [PLAY] button on remote control to show images in slide show mode.
Start the slide show.

The picture will be consecutively showed in the seconds set for the time interval.

Subtitle Font Size :

- Large Font : Subtitle are shown in large font size while playing a movie file.
- Small font : Subtitle are shown in small font size while playing a movie file.
- Off : No subtitle will be shown up on the screen.

Subtitle Color :

- Font Color / Border Color : You can choose white / transparent, white / black, yellow / transparent, yellow / black

Language :

- English : Setup and various UI menu is shown in English
- French : Setup and various UI menu is shown in French
- Spanish : Setup and various UI menu is shown in Spanish
- Portuguese : Setup and various UI menu is shown in Portuguese

Initialize :

- All the configurations and settings are set back to initial values & default values.

MAIN MENU SCREEN

CNX product shows all playable media files on the screen .

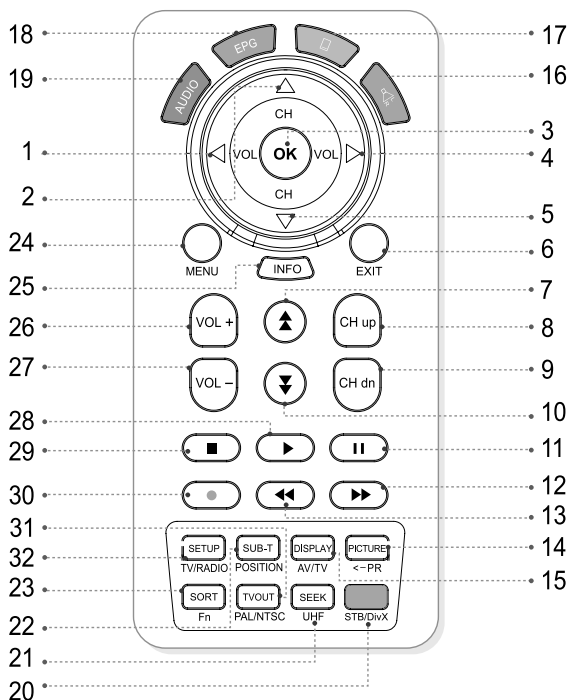
If you want to play music, movie, and image files, press [play] or [OK] button on the remote control.

1. Upper folder - Move back to upper folder by selecting this item or pressing [EXIT] button of the remote control.
2. Folder list - List of all folder in current path.
Press [OK] button.
3. Audio file - All playable music files are shown in this icon. Extensions of the music files are mp3, wma, AC3 and ogg.
4. Firmware file - It shows Firmware files of CNX product. Firmware can be easily upgraded by selecting desired firmware from the main screen.
Extensions of the Firmware files is upd.
5. Image File - All playable image & picture files are shown in this icon.
Extensions of the picture & image file is jpg.
6. Video file - All playable movie files are shown in this icon.
Extensions of the movie files are AVI(Divx 3.x, 4.x, 5.x, XviD), MPG, MPEG, DAT, and VOB.
7. Current path - Shows currently selected folder path.
8. File information - Shows number of selected file and file size.
Notation of selected files is shown as
[currently selected file / total number of files in a folder].



PLAY MUSIC

- You can play the MP3, WMA, OGG vorbis, and AC3 music files.
- The search function does not work on OGG files.
- If you want to play the music file, pressing [OK] or [PLAY] button after select a audio file you want, using \triangle , ∇ button to select the file. And then, the chosen music file in a certain folder is being played until the STOP button pressed.



KEY Label		Functions	Description
16	BLUE	Show all playable video files first [sort video file]	It stops when music play is on.
17	YELLOW	Show all playable music files first [sort music file]	It stops when music play is on.
18	GREEN	Show all playable image files first [sort image file]	It stops when music play is on.
19	RED	Show all firmware files first [sort firmware file]	It stops when music play is on.
2	\triangle	Up Arrow : Move upward among menu items.	

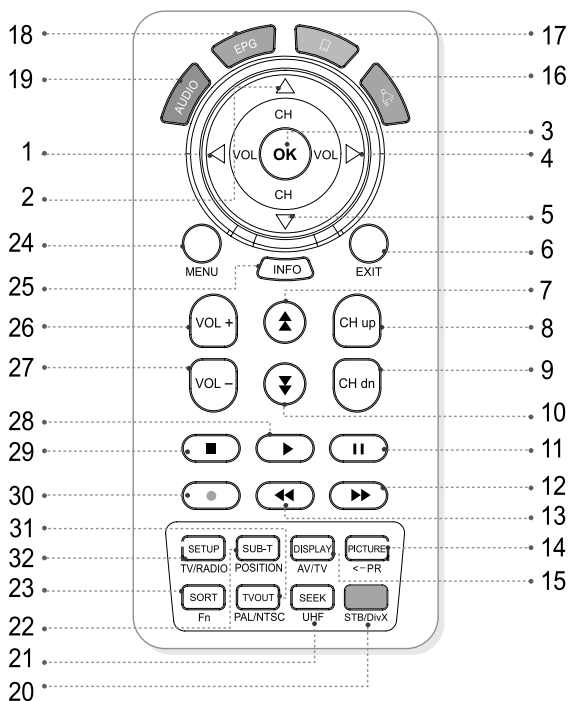
PLAY MUSIC

KEY Label		Functions	Description
5	▽	Arrow : Move downward among menu items.	
4	▷	Change the setting value into next higher level.	
1	◁	Change the setting value into next lower level.	
3	OK	Select a menu item or plays the chosen file in current folder.	
25	INFO	Shows information of currently played file. Otherwise, shows how to use remote control.	
6	EXIT	It stops while music is on. If you are on a folder, move back to upper folder.	
26	VOL +	It turns up volume. Volume goes 3 steps up when you press the button for long time.	
27	VOL -	It turns down the volume. Volumes goes 3 steps down when you press the button for long time.	
8	CH up	Play next file.	Firmware file and folder are skipped.
9	CH dn	Play previous file.	Firmware file and folder are skipped.
29	■	Stops currently playing music file.	
28	►	Play the selected music file. Continue on execution of all music file in current folder. (Except firmware file)	
11	II	Pauses currently playing music file.	
13	◀◀	Fast Backward: Movement of the playing location 5 sec. backward.	It does not support VBR music file.
12	▶▶	Fast Forward: Movement of the playing location 5 sec. forward.	It does not support VBR music file.
32	SETUP	Go back to Set UP menu screen.	It stops playing music.
31	TVOUT	Switches between TV output modes.	NTSC
15	DISPLAY	Switches between Screen display modes.	letter-box, pan & scan, full-screen.
14	PICTURE	Adjustment of screen contrast, brightness, and saturation.	1-step.
20	RED	Switches between STB and Divx modes. It pauses while playing movie, music, picture and goes back to STB menu mode. If it get back to divx, it plays after the point it stops when press [►] button.	Divx -> STB mode.
23	SORT	It arrays file in order of file names or file size.	It stops while playing.

PLAY MOVIE

- You can play AVI, MPG, MPEG, DAT, VOB movie files.
- The subtitle must be saved in same folder with movie file.
- If you want to play the video file, pressing [OK] or [PLAY] button after select a movie.

file you want, using Δ , ∇ button to select the file. And then, the chosen movie file in a certain folder is being played until the STOP button pressed.



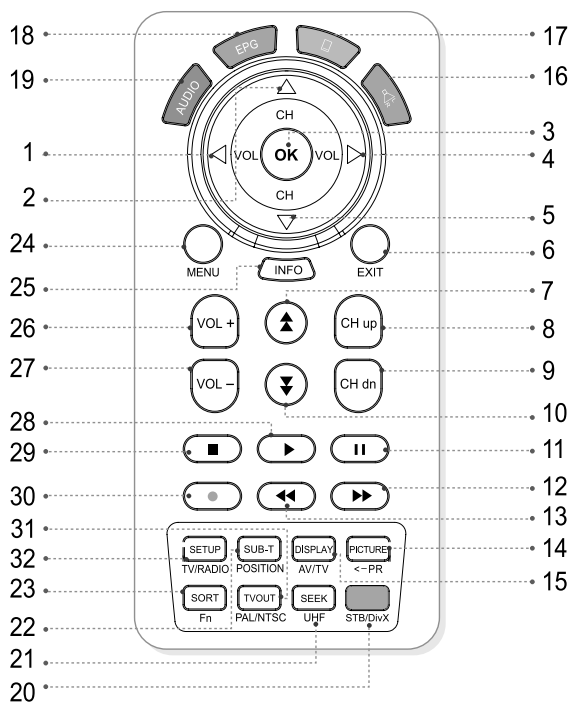
KEY Label		Functions	Description
3	OK	It plays and sync with present time. When move and subtitle is not in sync, use this button to sync between movie and subtitle.	
25	INFO	Press once : Shows time, progress bar, file name. Press twice : Shows only time information. Press again : Turns the information status off.	
6	EXIT	It deletes OSD. If OSD does not shown up, stops playing the present movie file and goes back into file list menu.	

PLAY MOVIE

KEY Label		Functions	Description
26	VOL +	It turns up volume. Volume goes 3 steps up when you press the button or long time.	
27	VOL -	It turns down volume in a step The volume goes 3 steps down when you press it for long time.	
8	CH up	Play previous file in current folder.	Firmware file and folder are skipped.
9	CH dn	Play next file in current folder.	Firmware file and folder are skipped.
7	▲	Fast Backward : Movement of the playing location 30 sec. backward.	It does not support VBR file.
10	▼	Fast Forward : Movement of the playing location 30 sec. forward.	It does not support VBR file.
29	■	It deletes OSD. If OSD does not shown up, stops playing the present movie file and goes back into file list menu.	
28	▶	Play all the movie files in current folder.	Continue on execution of all music file in current folder.(Except firmware file)
11	II	Pause the movie file.	
13	◀◀	Rewind : REVx4/REVx8/REVx16/REVx32/	It does not support VBR files.
12	▶▶	Fast Forward : FFx4/FFx8/FFx16/FFx32	It does not support VBR files.
15	DISPLAY	Zoom in and out of the screen.	letter-box, pan & scan, full-screen mode.
14	PICTURE	Adjustment of screen contrast, brightness, and saturation.	1-step.
20	RED	Switches between STB and Divx modes. It pauses while playing movie,music,picture and goes back to STB menu mode. If it get back to divx, it plays after the point it stops when press [▶]button.	Divx -> STB mode.
22	SUB-T	Changes subtitle settings. (subtitle size change, subtitle off)	subtitle size (big, small) subtitle off.
21	SEEK	It play the movie file at user desired time. This feature is used to move the played video predefined time forward during playing the file.	It does not support VBR files.

VIEWING PHOTO

- You can play JPEG files.
- If you want to play the image file, pressing [OK] or [PLAY] button after select a photo file you want, using \triangle , ∇ button to select the file. And then, the chosen image file in a certain folder is being shown as the picture slide until the STOP button pressed. If you press CH up/down button, it also stop the slide show.



VIEWING PHOTO

KEY Label		Functions	Description
4	▶	The screen can rotate at an angle of 90 degrees, clockwise direction.	It stops slide show.
1	◀	The screen can rotate at an angle of 90 degrees, counterclockwise direction.	It stops slide show.
6	EXIT	Stops the current displayed file and goes back into file list menu.	
26	VOL +	Zoom in the original image file.	The Original image will expand in order of 1, and maximum 5 times.
27	VOL -	Zoom out the original image file.	The Original image will reduce in order of 1, and maximum 5 times.
8	CH up	Play previous image file.	Firmware file and folder are skipped.
9	CH dn	Play next image file.	Firmware file and folder are skipped.
29	■	Stops the playing image file and goes back into file list menu.	
15	DISPLAY	Zoom in and out of the screen. 3 OK It fits the image to screen size when zooming.	Letter-box, Pan & Scan, Full-screen mode
14	PICTURE	Adjustment of screen contrast, brightness, and saturation.	1-step
20	RED	Switches between STB and Divx modes. It pauses while playing movie,music,picture and goes back to STB menu mode. If it get back to divx, it plays after the point it stops when press [▶] button.	Divx -> STB mode

FIRMWARE UPGRADE

<Caution>

Do not operate or manipulate the power or remote control while you are upgrading it. CNX product will be upgraded anytime for codec update and bug fix to satisfy user's needs. You can download the latest firmware file from CNX homepage.

1. Download a firmware from homepage and unzip the file, and copy the firmware file to desired location of the external memory storage. Connect external memory storage to Divx USB 2.0 port of CNX product.

2. Select a firmware file using remote control, and press "[OK]" button to run the firmware file.
The firmware file is shown as "****.upd" in file list.

3. Following screen appears.
Choose [YES] in warning message to run the firmware file.

[Caution]

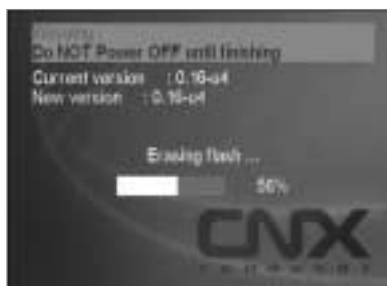
Do NOT power off this CNX product while upgrading the firmware. Otherwise, flash memory can have severe damage.

4. Firmware reading & decoding screen.



FIRMWARE UPGRADE

5. firmware upgrade screen1 [Erasing flash].



6. firmware upgrade screen2 [writing flash].



7. When upgrading the firmware completed successfully, following screen screen appears.
And system restarts automatically.



TROUBLESHOOTING

If you inquire more specific troubleshooting information, please visit CNX homepage and refer to FAQ or Q&A on customer support.

1. If you see nothing on TV screen, or screen trembling.
 - If configuration of video output is set up in wrong way, it might lead nothing on screen or black and white or screen trembling.
Then Press [TV OUT] button slowly and change video output mode.
2. If CNX Divx freezes after initial screen appears, and does not proceed to main menu screen.
 - Check out if USB Device is connected well.
 - Check out if the partition of USB Device is set up and formatted properly.
3. If Subtitle is not showing.
 - If movie or image file and subtitle file names do not match, subtitle does not shown up. For example, if the file name of the movie file is bbb.avi , the file name of subtitle file must be bbb.smi .
4. When the power is on, nothing appears on the screen or screen appears in monochrome and screen is shaking.
 - When video output mode setting is not properly set, screen appears in monochrome or screen might be shaking.
Press [TV Out] button of the remote control to change output mode until video output mode setting is properly set.
5. When Video file is not being playing , or nothing appears on the screen (black screen).
 - Video file with unsupported CODEC cannot be played. Users can figure out whether the CODEC is being supported from the test program or use the media conversion program to convert the file.
Otherwise, press [TV OUT] button of the remote control, twice.
6. When Screen is being displayed with no sound.
 - Check the external TV s input terminal.
The video input terminals of external equipment such as the composite, component have separated audio inputs.

Check it the video and sound inputs are properly connected.

BRAND LIST (LISTA DE LAS MARCAS)

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