

DIGITAL SATELLITE RECEIVER

DVB
Digital Video
Broadcasting



NANO
P R E M I U M

USER'S MANUAL

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

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SAFETY WARNING

Warning

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

Safety Instructions and Precautions

- 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 30W 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.
- The contents of manual may be updated without notice.

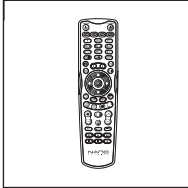
NOTE: To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

GENERAL INFORMATION

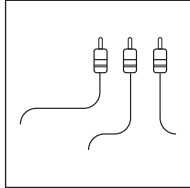
Package Contents & Features

Package Contents

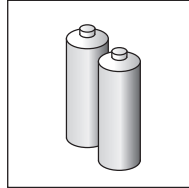
Please ensure that the following items are included with the receiver in your packing.



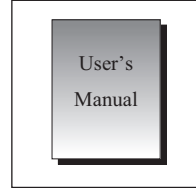
**Remote Control
Unit**



A/V Cable



**Batteries 2EA
(for RCU)**



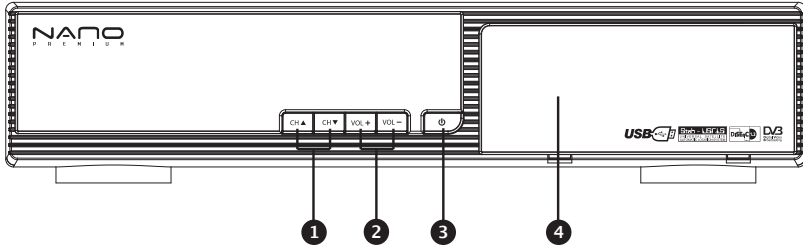
User's Manual

Features

- Home streaming
- Live IP Movie/Radio
- 2 x USB 2.0 Hosts (Access to HDD, USB memory, Others etc)
- Wi-Fi Ready (Optional)
- Universal Remote
- Built-In Ethernet Port
- MP3 File Play by USB 2.0
- PVR Ready via USB
- Recorded file play on PC
- Reservation Recoding by EPG function
- MPEG-II Digital & Fully DVB Compliant.
- C/KU band control for each antenna
- LNB Tone Switch 22KHz mode on/off
- Multi-LNB controlled by DiSeqC =>DiSeqC 1.0, 1.1, 1.2 and USALS
- Total 8,000 Channels Programmable
- Blind Scan
- Picture In Graphic (PIG)
- Electronic Program Guide (EPG) for On Screen Channel Information
- Multi-language supported for Menu and OSD
- Zoom Function by 2x...4x
- Parental Lock
- Closed Caption Support
- CVBS Video & Audio Output via RCA
- Component YUV Output via RCA
- 7-Segment(4-digit) Type of Front Panel Display
- Upgrade Software & Update Channel Database through USB 2.0 Port

GENERAL INFORMATION

Front Panel



1. CH Up/Down

Channel up / down or select the item of Menu.

2. VOL Left/Right

Volume left/right or select the item of Menu.

3. POWER Button

Switch between Power on and Standby modes.

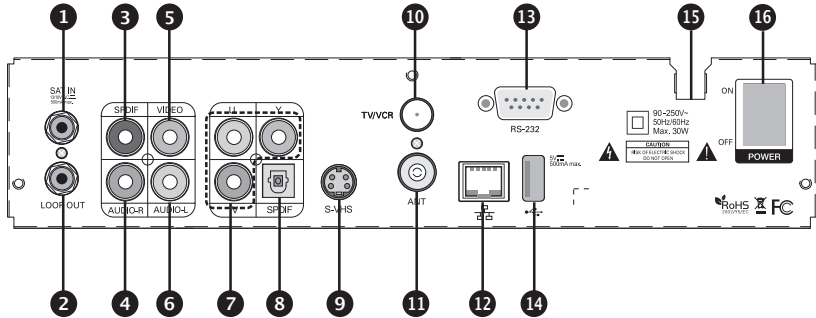
4. USB Port

To upgrade firmware.

NOTE: The front panel of the product is subject to change without notice.

GENERAL INFORMATION

Rear Panel



1. SAT IN

Connect to Satellite antenna cable.

2. LOOP OUT

Connect to another STB.

3. DIGITAL AUDIO

Output for connecting to a digital amplifier.

4. AUDIO-R

Connect to AUDIO RIGHT to TV or other equipment.

5. VIDEO

Connect VIDEO to the TV or other equipment.

6. AUDIO-L

Connect to AUDIO LEFT to TV or other equipment.

7. YUV

Connect to the YUV jack of TV.

8. DIGITAL AUDIO

Output for connecting to a digital amplifier.

9. S-VHS

Connect to the S-VHS jack of TV.

10. TV / VCR

Connect to TV or VCR.

11. ANT

Connect to TV antenna input.

12. ETHERNET

Connect to Lan cable. (RJ-45)

13. RS 232

Connect to personal computer for software upgrade.

14. USB PORT

Connect to USB device.

15. POWER SUPPLY

90~250V AC, 50/60Hz, 30W.

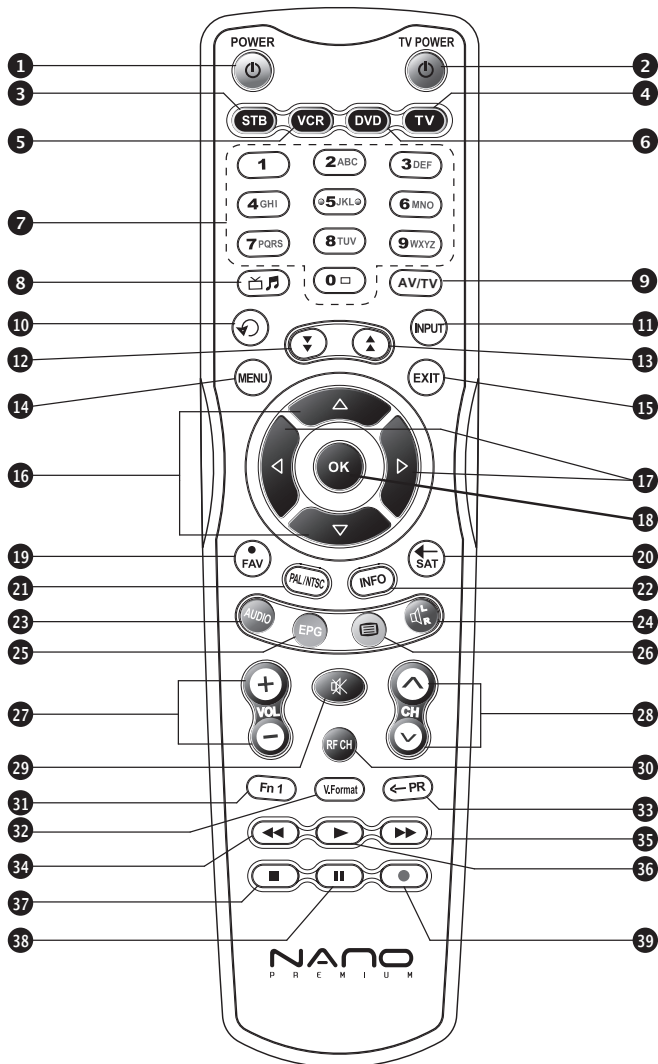
16. POWER BUTTON

Turn On/Off.

NOTE: The rear panel of the product is subject to change without notice.

GENERAL INFORMATION

Remote Control Unit (RCU)



GENERAL INFORMATION

Remote Control Unit (RCU)

1. POWER

Switch the receiver between operation and standby mode.

2. TV POWER

Turn on/off the TV.

4. STB

Switch to STB mode.

4. TV

Switch to TV mode.

5. VCR

Switch to VCR mode.

6. DVD

Switch to DVD mode.

7. Numeric buttons

Select the TV or Radio service channels and individual menu.

8. TV / RADIO

Switch between TV and Radio.

9. AV / TV

Select the TV or AV mode.

10. RECALL

Select the previously viewed channel.

11. INPUT

Select the TV external input.

12.

Move down a page in the channel list.

13.

Move up a page in the channel list.

14. MENU

Display the main menu on screen.

15. EXIT

Return to the previous menu or normal viewing mode from a menu.

16.

Change channel or move to the item in the menu.

17.

Adjust the volume or move to left or move item in the menu.

18. OK

OK button.

19. FAV

Toggle the selected favorite mode.

20. SAT

Toggle the selected Satellite list.

21. PAL / NTSC

Switch PAL or NTSC mode.

22. INFO

Display the program information box on the screen and edit the name of favorite channel list.

23. AUDIO

Change the audio languages.

24.

Select the sound mode (LEFT/RIGHT/STEREO).

25. EPG (Electronic Program Guide)

Display the TV or Radio program guide.

26.

Enable subtitle and teletext mode.

27. V+ / V-

Turn volume up or down.

28. P+ / P-

Change channels up or down on normal mode.

29. MUTE

Enable or disable the audio.

30. RF CH

Select the RF channel.

31. Fn

Reserved.

32. V.Format

Switch to HD Type.

33. PR

Reserved.

34. REWIND

Start reverse playback and change the speed of reverse playback.

35. F / F

Start fast forward or fast motion playback and change the speed of forward playback.

36. PLAY

Display file lists and plays slow/normal.

37. STOP

Stop recording or playing.

38. PAUSE

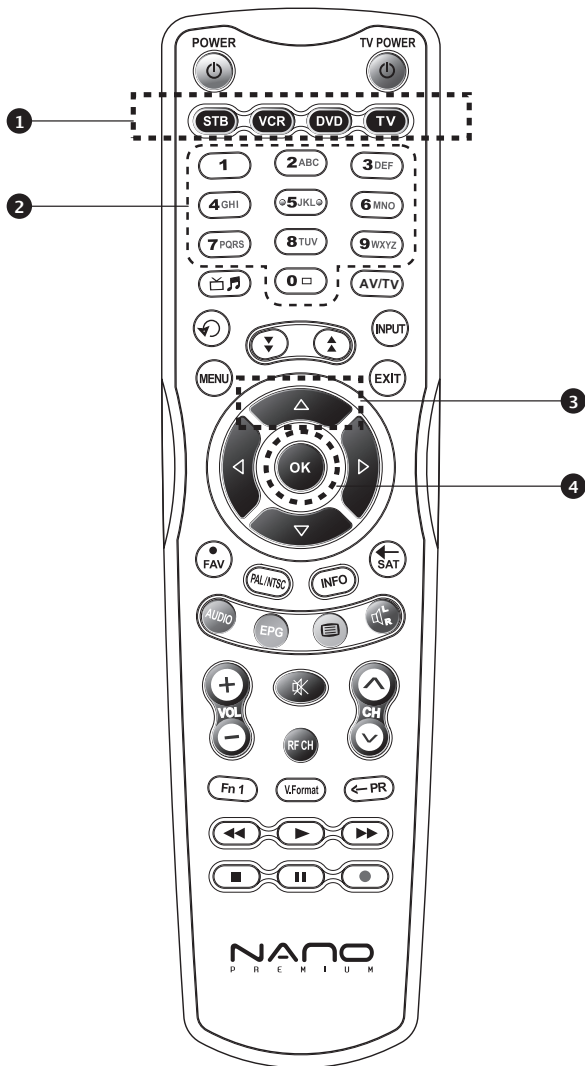
Pause the playing picture or go to normal mode.

39. RECORD

Record the program.

GENERAL INFORMATION

Programing the Remote Control



GENERAL INFORMATION

Programming the Remote Control

Programming the RCU

There are two ways to program the remote control ; Automatic Code Search or Direct Entry.

I. Usnig Automatic Code Search

- 1) Turn on the component you want to control (TV, VCR or DVD).
- 2) Press and hold the component key you want to program. Holding the component key until the LED on the remote control turns on, then release the key.– ❶
- 3) Point the remote at the component, press and release the **❸UP (▲) button**, then wait three seconds or until the LED stops flashing.

At this point the remote control is searching for the correct code to program. If, after three seconds, the component you want to control does not turn off, press and release **❸UP (▲) button** again to tell the remote to search the next set of codes.
- 4) If the component you want to control does turn off, Press and release **❹OK Button** , then the LED blinks three times.

II. Using Direct Entry Method

- 1) Turn on the component you want to control (TV, VCR or DVD).
- 2) Locate the enclosed Code List. Find your brand of the component you want to control.
- 3) Press and hold the component key you want to program. Holding the component key until the LED on the remote control turns on, then release the key.
- 4) Enter 3–digit code from the code list, then the LED blinks three times.
- 5) If you get no response, repeat these steps using the next code listed for your brand until the component responds to the remote control command.

III. Changing Volume Lock

Locking the volume controls to a single device makes it easier to control volume, without having to guess whether the volume will change. If you lock the remote's volume controls to the TV , you will always be able to change the volume to the level you want, without having to adjust it on multiple devices.

If you want to lock the volume for the STB component ;

- 1) Press and hold the STB component key until the LED on the remote control turns on.
- 2) Enter 3–digit code, 9 9 9 .
- 3) Press and release the STB component key, then the LED blinks three times.

Unlocking volume control ;

If you want to unlock the volume for the STB component ;

- 1) Press and hold the STB component key until the LED on the remote control turns on.
- 2) Enter 3–digit code, 9 9 9 .
- 3) Press and release the STB component key, then the LED blinks three times.

CHANNEL LIST GUIDE

Channel List Guide

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] key 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 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.
- Sort Key (Yellow Key)~A~Z/Z~A/FAT/CAS.
- 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.

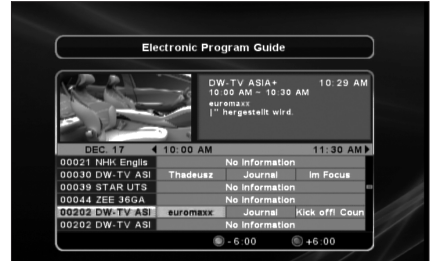


CHANNEL LIST GUIDE

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 once. (PVR model only)
- e) Red Circle will appear like the right side picture.
- f) If you reserve program, then it will be record automatically at reserved time.(PVR model only)
- g) To activate event timer, press REC button twice.
- h) Green Circle will appear.
- i) If you like to cancel reserved program, press REC button until Red or Green Circle disappears.
- j) Press OK 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

I. Channel Manager

MAIN PAGE

Press the [MENU] key 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

This chapter explains 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.

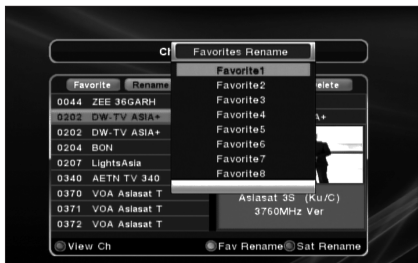


MENU GUIDE

I. Channel Manager

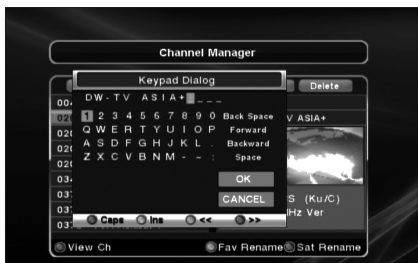
I-2. Rename

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 on 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

II. INSTALLATION

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-4. Network



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

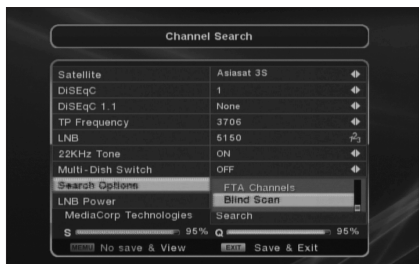
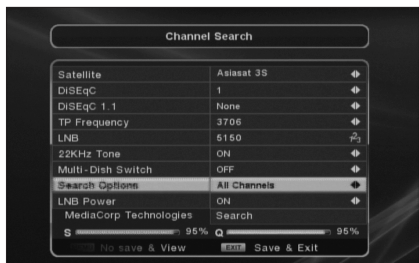
- Select the one among None, 0 KHz or 22 KHz depending on the user's antenna switch box.

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.



MENU GUIDE

II. Installation

II-2. DiSEqC Switch

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

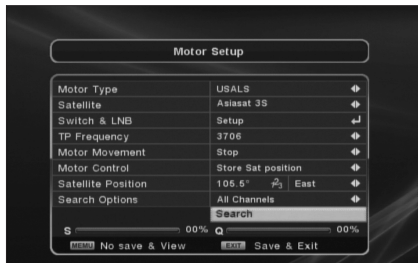
- If you select DiSEqC Switch and press OK on the menu will be, DiSEqC Switch Page will be displayed.
- Select the proper Satellite of each DiSEqC port (A~D) using ◀▶ and ▲▼ and press SEARCH. Selected Satellites will be searched automatically.



II-3 Motor Setup

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

- Motor Type : DiSEqC 1.2, USAL
 - Press OK to display Motor Type
 - Select the proper Motor Type and then press OK.
- Satellite
 - Press OK to Display the Satellite List Box
 - Select the proper Satellite and then press OK.
- Switch & LNB
 - Press OK to Display the LNB frequency list or Switch Setting
 - Select proper LNB & proper Switch.
- Frequency
 - Press OK to Display the Frequency List.
 - Select the proper Frequency and then press OK.
- Motor Movement
 - Search the appropriate position of the selected Satellite using ◀▶.



MENU GUIDE

II. Installation

II-3 Motor Setup

f) 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.

g) Satellite Position

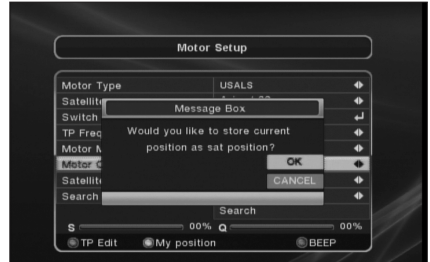
- Input directly the position using NUMBER KEY on the RCU
- Select the direction using ◀ ▶ (WEST / EAST).

h) Search Option

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

i) Search

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



◆ 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 NUMBER KEY on the RCU.
- Select the direction using ▲ ▼ (NORTH / SOUTH).

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

MENU GUIDE

II. Installation

II-4. Network

This section may help you to set up network configuration.

1. IP Setup

Select one from three kinds of options for Network Setting.

a) Not Use

- In this case, network is disabled.

b) Automatic

- This is for user to use dynamic IP address service. After Select Automatic, and just push Apply button, Box will get a new IP from router.

c) Manual

- This is for user to use static IP address service Put in with your IP address, Subnet mask and Gateway. And push Apply button, then Box will reboot by itself.

2. Home Streaming

Home Streaming feature enables to watch downloaded MPEG movie files with your TV directly. First, please set up the Home Streaming program in your computer, and then configure your unit according to your router information to connect with computer.

There are 3 tabs in Home Streaming Program.

1st Tab (Movies) : It shows file list in PC server

2nd Tab (Download) : Reserved for future function

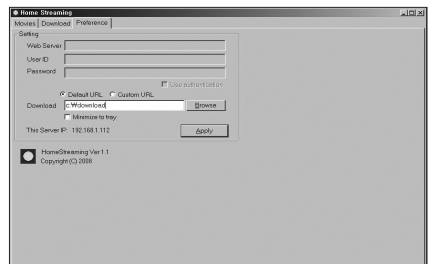
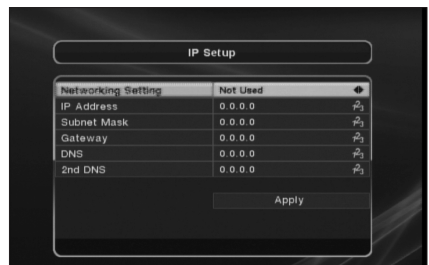
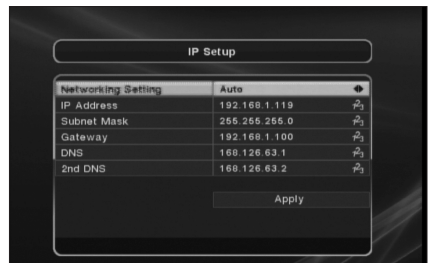
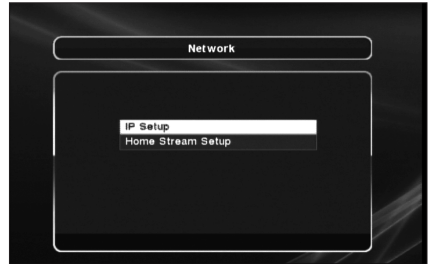
3rd Tab (Preference) : Configuration

1) Setting in your PC

a) Please go to "Preference" Tab

b) Select "Use" default check-box and assign the download folder by using "Browse"

It is assigned to "c:\download" but you should specify the destination folder personally.



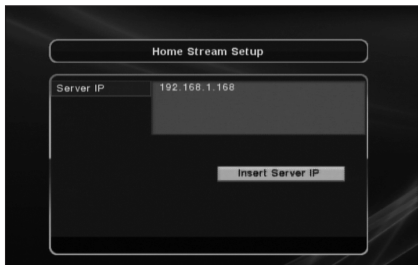
MENU GUIDE

II. Installation

II-4. Network

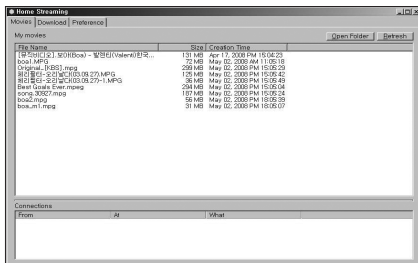
2) Configuration in your STB

- a) Please go to IP Set up and click "Apply"
(Installations → Network → IP Set up)
- b) Exit from IP set up and go to Home Stream Setup.
User must insert Server-IP into the STB by using numeric buttons personally
- c) The IP address must be the same as showed in preference of "Home Streaming program"



3) Playing the Movie File

- a) Please go to "Movies" Tab in Home Streaming Program on your computer.
- b) This tap shows the contents in the folder which you specified.
- c) If you do not see the contents, then press "Refresh" button to reset "Movies" page.
- d) Press "Fn" key of RCU in View mode of your STB and select Network File Manager, you can see same list in TV Screen.
- e) Please select the file which you want to see by using navigation keys of RCU and press "OK" to play the Movie file.
- f) When playing selected files, your IP adress will appear on "Connection" box in Home Streaming program.



※ Please see the right picture for better understanding.



◆ Please note

- Support only Mpeg file currently.
- When appears "Network Error...8000" message, please check IP setting in IP setup or Home Stream Setup Menu in your Set Top Box.



MENU GUIDE

III. Options

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

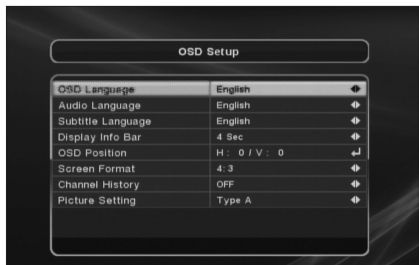
- Press OK to display Display Info Bar time list.
- Select the second that you want to display and then press OK.

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 then 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

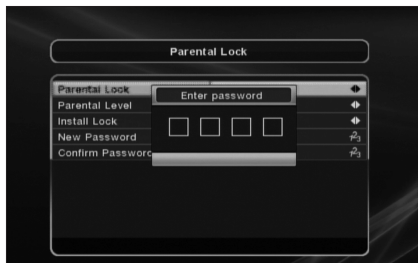
Set your local time according to your location.

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.



MENU GUIDE

IV.Utility

IV. UTILITY

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

IV-1. System Information

IV-2. USB

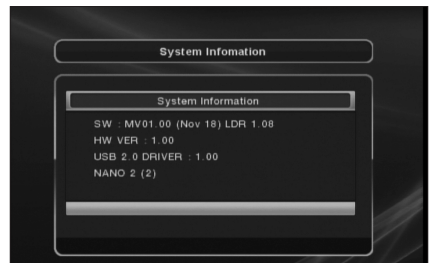
IV-3. Factory Default



IV-1. System Information

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

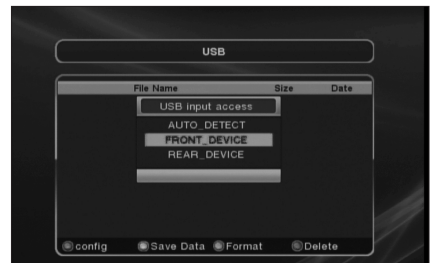
1. Select System Information in Options using ▲▼ and pres OK.
2. Press EXIT to return to the previous menu.



IV-2 USB

The receiver is equipped with host.

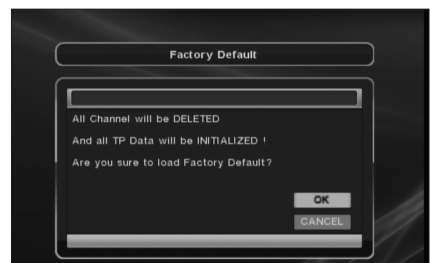
1. Select USB in Utility with ▲▼ and press OK.
2. If you want to change mode(S/W Upgrade, BootLoader Upgrade), press RED button on the RCU.
3. Select the file which you want to upgrade using ▲▼ and press OK.
4. After downloading the selected file, the receiver will reboot automatically.



IV-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

Troubleshooting

Before contacting your local service center, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local re-trailer for further instructions.

1. Nothing appears on the Front Panel or No power supply

- Check that the power cable is plugged into the power socket.

2. No Picture

- Check the dish and adjust it.
- Check the cable connection and correct it.
- Get out of UHF mode.
- Check channel and video output.

3. No Sound

- Check the volume level of the TV and receiver.
- Check the mute status of TV and receiver.
- Check the cable connection and correct.

4. Remote Control Unit does not work

- Replace batteries.
- Aim the remote control unit directly to the receiver.
- Checking that nothing blocks the front panel.

5. "No Signal" on the screen

- 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.

6. Tuner detective check

- Go to the Option and select System Information.

7. You have forgotten your secret PIN code

- Please provide the Master password beside the 0000.

SPECIFICATIONS

Specifications

I. Tuner & Channel	
Item	Specification
Type	1 x F Type, IEC169-24, Female
Frequency Range	950MHz to 2150MHz
RF Impedance	75 Ohm unbalanced
Signal Level	-65 to -25 dBm
LNB Power	13.5/18.5Vdc +/- 5%, 0.5Amax, Overload Protected
22KHz Tone	Frequency : 22KHz +/- 2KHz, 0.6Vpp +/- 0.2V
DiSeqC Control	Version1.0, 1.1, 1.2, Tone burst A/B
Demodulation	QPSK
Input Symbol Rate	2~45 Ms/s, SCPC/MCPC
FEC Decoder	Convolution Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 With Constraint Length K = 7

II. System & Memory	
Item	Specification
Main Processor	32-bit ARM946 RISC Processor
Flash Memory	2 Mbytes
System DRAM	32 Mbytes
Channel Capacity	Digital Channel : 8000
Front	7-segment Display (4-digit)

III. MPEG Transport Stream & A/V Decoding	
Item	Specification
Transport Stream	13818-1 MPEG-2, H.264/AVC Transport stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	Max. 90Mbit/s
Aspect Ratio	4:3, 16:9, Letter Box
Frame Rate	25Hz for PAL, 30Hz for NTSC
Video Resolution	720 X 576(PAL) / 720 X 480(NTSC)
Teletext	Through VBI
Audio Decoding	MPEG/Musicam Layer I & II
Audio Mode	Single Channel/Dual Channel Joint Stereo/Stereo
Frequency Response	20~20kHz, <+/-2dB 60Hz~18KHz <+/- 0.5dB
Sampling Rate	32, 44.1, 48KHz

SPECIFICATIONS

Specifications

IV. A/V & Date In/Out	
Item	Specification
RCA Output	CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control Component Video(YUV) Out
S-VHS Output	4-pin MINI
SPDIF	Digital Bitstream Out (Coaxial, Optical)
Data Interface	RS-232, Bit Rate: 115,200baud Connector: 9-pin D-sub Male type - USB : Type A Connector(FRONT/REAR) - Ethernet : 10/100Mbps, DHCP Supporting

VI. Power Supply	
Item	Specification
Input Voltage	AC 90V ~ 250V, 50Hz ~ 60Hz
Power Consumption	Max 30W
Standby Power Consumption	<= 10W
Protection	Separate Internal Fuse The input shall the lighting protection

VII. Physical Specification	
Item	Specification
Size(WxHxD)	260mm x 50mm x205mm
Weight	1.4 KG

VIII. Environmental Condition	
Item	Specification
Operating Temperature	0 °C ~ 40 °C
Storage Temperature	-10 °C ~ 50 °C
Operating Humidity Range	10~85% RH, Non-condensing
Storage Humidity Range	5~90% RH, Non-condensing

BRAND LIST

Brand List – TV

TV			
BRAND	CODE NO.	BRAND	CODE NO.
A MARK	000	CENTURION	051
ABEX	130 212	CETRONIC	030
ADMIRAL	013 131 166 230 268	CHANGHONG	181 291
ADPECT	124	CITIZEN	009 010 016 018 030 042 044 051 086 096 139 166 168 173 210 248 264
ADVENT	308	CLAIRTONE	187
ADVENTURA	195	CLASSIC	030 181 291
AIKO	009 248	CLP	190
AIWA	213 228 245 265	CLP CLASSIC	051 188 196
AKAI	014 198 292 341	COLOR VOICE	267
ALLERON	056 282	COLORTYME	011 016 018 051 267
AMARK	268	CONCERTO	016 051
AMTRON	030	CONCIERGE	125
Anam National	015 030 205 311 322	CONTEC	130 187
AOC	016 017 018 019 051 140 141 169 187 204	CONTEC/CONY	005 006 007 030
APEX	181 215 229 291	CORNEA	051
ARCHER	268	CORONADO	000
AUDIOVOX	030	CRAIG	030
AXION	241 344	CROSLEY	012 294
BELCOR	016 051	CROWN	030
BELL&HOWELL	013 042 058 166 266 347	CTX	268
BENQ	283 284 315	Curtis Mathes	008 012 016 018 042 045 051 058 086 096 139 166 172 173 210 255 266 346 347
BRADFORD	030	CXC	030
BROKSONIC	016 032 168 182 200 278 309 344	DAEWOO	000 001 009 016 017 018 030 051 116 139 151 167 201 204 247 248 251 257 258 267 272 312 340 341 344 346
BROKWOOD	016 051	DAYTRON	016 018 051 139
CANDLE	016 044 051 195	DELL	300 345
CAPEHART	140	Diamond Vision	256 277 297
CARVER	012		
CELEBRITY	014 292		
CELERA	181		
CENTRIOS	262		

BRAND LIST

Brand List – TV

DIGISTAR	211 224 240 328 345	GUESTVISION	349
DIMENSIA	045 266 347	HAIER	229 239 244 283
DISNEY	252	HALLMARK	016 018 051
DUKANE	124 295	HARSPER	184 185
DUMONT	016 051 125	HARVARD	030
DURABRAND	121 168 198 239 244 264 344	HISENSE	229 303 314
DYNASTY	030	HITACHI	000 005 006 007 016 018 051 067 068 069 100 101 102 103 104 105 106 107 108 109 119 123 124 130 143 161 166 171 179 245 261 263 271 285 295
DYNATECH	016	ILO	254 334 353 354
ELECTROBAND	014 187 292	IMA	030
ELECTROHOME	002 003 014 015 016 018 051 198 311	INFINITY	012 294 335
ELEKTRA	166	INITIAL	353
ELITE VIDEO	242	INSIGNIA	168 224 231 240 244 264 317 319
EMERSON	000 004 005 016 018 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 042 051 056 058 114 139 142 143 167 168 178 188 198 205 206 207 216 231 233 245 258 263 264 269 270 278 280 281 282 325 344 346	INTEGRA	287
ENVISION	016 018 051 191	INTEQ	125
FISHER	042 057 058 059 130 144 275	JANEIL	195
FUJITSU	056 242 282	JBL	012 294
FUNAI	030 056 231 245 264 282	JC PENNEY	003 006 008 010 016 017 018 041 044 045 051 055 060 061 064 078 086 095 096 117 130 132 139 189 204 210 235 237 266 269 293 347
FUTURETEC	030	JCB	292
GATEWAY	220	JENSEN	016 018 051 319
GE	003 008 015 016 018 045 051 060 061 062 078 132 147 148 149 174 188 189 235 237 266 293 307 311 337 347	JVC	005 006 007 046 047 048 061 068 128 129 130 133 158 178 218 242 271 285 342
GIBRALTER	016 051 125	KAWASHO	014 016 018 051 292
GOLDSTAR	000 002 005 016 017 018 051 055 064 120 125 127 130 139 204 245 272	KAYPANI	140
GPX	203	KEC	000 030
GRUNDY	030 056 282	KENWOOD	002 016 018 051
		KLH	181

BRAND LIST

Brand List – TV

Kloss Novabeam	030 049 065 195	MONIVISION	219
KMC	000	Montgomery Ward	013 166 266 347
KONKA	030 217 222 234 279 317 352	MOTEVA	042
KTV	030 066 139 142 187 280	MOTOROLA	015 131 268 311
KURAZAI	166	MTC	016 017 018 051 086 096 187 204 210
LASONIC	256 277	MULTITECH	030
LG	017 051 063 125 130 204 245 272	MULTIVISION	076
LIQUIDVIDEO	241 253 344	MYRON & DAVIS	306
LODGENET	166 266 305 347	NAD	018 040 041 051 086 134 171 212
LOEWE	289 294	NEC	011 015 016 017 018 051 075 204 267 285 287 311
LOGIK	013 166 266 347	NET TV	194 220
LUCE	208	NEXXTECH	240 333
LUXMAN	016 018 051	NIKKO	009 018 051 248
LXI	008 012 018 040 041 042 045 051 058 086 132 237 245 266 294 347	NORCENT	221 229 312
MAGNASONIC	282	NTC	248
MAGNAVOX	000 002 010 012 016 018 043 044 046 049 050 051 065 079 110 111 112 230 231 285 294 335 349	OLEVIA	051
MAJESTIC	013 166 266 347	ONCOMMAND	349
MARANTZ	012 016 018 051 067 287 294	ONKING	030
MEDION	252 254 324	ONWA	030
MEGATRON	018 051 067 124	OPTIMUS	134 138 171 199 212 290
MEI	187	OPTOMA	327
MEMOREX	013 017 018 042 051 056 058 166 168 200 266 278 282 347	OPTONICA	075 131 268
MGA	002 003 016 017 018 051 052 053 059 130 204 275 282 285	ORION	032 125 168 206
MIDLAND	008 125 130 189 237 347	PANASONIC	015 061 066 138 152 175 189 199 246 290 294 311
MIKEI	030	PHILCO	000 002 005 010 012 015 016 017 018 043 044 046 049 050 051 065 204 285 294 311 349
MINUTZ	293	PHILIPS	000 002 005 010 012 015 016 043 044 046 049 051 065 070 077 078 079 196 214 231 235 243 264 276 285 294 311 335 338 344 345 349
mitsubishi	002 003 016 017 018 051 052 053 054 059 115 198 204 275 282 285 286		

BRAND LIST

Brand List – TV

Philips-Magnavox	230 243 294 335 338 349		095 096 097 130 139 151 163 204 209
PILOT	016 051		210 223 232 255 272 302 310 339 341
PIONEER	016 018 051 071 072 134 143 171212 263 273 287 295	SAMSUX	051
PIVA	326	SAMTRON	210
POLAROID	303 319 321	SANSUI	168 200 278
PORTLAND	000 009 016 017 018 051 139 204 248 251 346	SANTECA	197
PRECISION	226	SANYO	016 042 051 053 057 058 085 098 130 137 144 236 250 275
PRICE CLUB	096 210	SCOTCH	051
PRIMA	211 224 240 328	SCOTT	005 016 018 020 021 030 032 051 056 206 282
Princeton Graphics	260 268	SEARS	000 002 006 007 008 012 016 018 040 041 042 045 047 051 056 057 058 059 086 087 130 132 144 160 200 210 231 237 259 264 266 275 282 294 298 347
PRISM	061 189	SELECTRON	330 331 332
PROSCAN	008 045 132 237 266 301 336 347	SHARP	000 005 016 018 023 026 033 051 075 080 088 089 113 131 139 230 259 268 299 313 318
PROTON	005 016 018 051 073 140 227 304 316	SHOGUN	016 051
PROVIEW	354	SIGNATURE	004 013 166 266 347
PULSAR	016 051 125	SIMPSON	044
QUASAR	015 061 066 074 138 175 189 199 290 294 311	SONIC	187
RADIO SHACK	042 051 058 138 245 266 281 307 337 347	SONY	014 150 157 159 164 170 177 292 343 350
Radio shack / Realistic	005 016 018 030 042 045 058 075 130 139	SOUNDESIGN	010 016 018 030 044 051 056 282
RCA	002 008 015 016 017 018 019 045 051 090 091 092 093 094 099 118 132 135 136 143 148 153 162 167 172 176 180 189 192 204 237 263 266 288 301 307 311 336 337 347 351	Spectravision	323
REALISTIC	042 051 058 138 245 266 281 337 347	SQUAREVIEW	264
RHAPSODY	187	SSS	016 030 051
RUNCO	125 287	STARLITE	030
SAMPO	016 018 051 130 139 140 186 194 220	STARSIGHT	190
SAMSUNG	000 002 005 008 016 017 018 051 086	SUPERSCAN	231 259 298
		SUPERSONIC	203

BRAND LIST

Brand List – TV

SUPRA	051 296	VIEWSONIC	220 295
SUPREMACY	195	VIKING	195
SUPREME	292	VIZIO	283
SVA	229	WARDS	000 002 012 013 016 017 018 020 021 043 044 045 046 049 051 056 060 065 075 078 079 084 166 204 235 266 282 293 294 347
SYLVANIA	002 010 012 016 018 043 044 046 049 050 051 065 079 081 146 168 231 245 264 285 294 348 349	Westing House	193 320
SYMPHONIC	020 030 056 160 231 245 264	Whitewestinghouse	225 245 251 272 346
SYNTAX	051	YAMAHA	002 016 017 018 051 138 204
TANDY	131 268	ZENITH	004 013 016 033 051 121 122 124 125 126 140 165 166 168 190 230 245 248 251 255 258 278 335 342 344
TASHIKO	041	VCR	
TATUNG	015 254 283 311	AIWA	049
TECHNICS	061 189	AKAI	061 063
TECHWOOD	016 018 051 061 189	AMPRO	044
TEKNIKA	000 005 006 007 009 010 012 013 016 017 018 030 044 051 056 086 096 130 138 139 166 175 195 204 210 248 266 282 347	ANAM	025 026 027 028
TELECAPTION	082 238	Audio Dynamics	000
TELERENT	166 266 347	CANON	028
TERA	016 051 227	CAPEHART	018
TEVION	254	CRAIG	006 064
THOMSON	154	Curtis Mathes	008 009 028
TMK	016 051	DAEWOO	010 013 016 017 018 019 020 021 022 023 024 026 033 075 077
TOSHIBA	040 041 042 058 075 082 083 086 096 130 138 145 146 155 156 183 200 202 210 238 255 274 285 287	DAYTRON	018
TOTEVISION	139	DBX	000
TRUTCH	329	DYNATECH	053
UNIVERSAL	060 078 235 293	ELECTROHOME	043
VICTOR	271	EMERSON	003 008 009 010 028 041 062 065 066 067 068
VIDIKRON	012	FISHER	075
VIDTECH	016 051 204		

BRAND LIST

Brand List – VCR

GE	008 009 028 044	REALISTIC	003 006 028 053 075
Harman Kardon	000 047 069	RICO	035
HITACHI	001 002 045 046 047 048	RUNCO	044
Instantreplay	028	SAMSUNG	005 006 007 008 009 010 011 012 013 014 015 032 041 061
JCL	028	SANSUI	055 064
JCPENNY	000 006 028 045 054	SANYO	006 017 075
JVC	000 028 055 070 078	SCOTT	010 013 041
KENWOOD	048 055 055	SEARS	001 002 003 010 028 042 045 075
LG (Goldstar)	000 001 002 003 004 045	SHARP	028
LXI	001 003 010 045	SONY	028 030 031 032 033 034 035 036 037 038 039 040
MAGIN	006	STS	001 045
MAGNAVOX	008 009 028 057 068 072	SYLVANIA	028 043 057
MARANTZ	000 028 057 073 076	TAEKWANG	029
MARTA	003	TANDY	075
MEI	028	TECHNICS	027 028
MEMOREX	003 006 028 044 053 075	TEKNIKA	003 028
MGA	043 047 069	TMK	062
MINOLTA	001 002 045	TOSHIBA	010 013 041 042 043 045 048
MITSUBISHI	002 043 045 047 050 051 052 053	TOTEVISION	003 006
MTC	006	UNITECH	006
NEC	000 054 055	Vector Research	000 054
OPTONICA	053	VICTOR	055
PANASONIC	027 028 056	Video Concepts	000 054
PENNEY	000 001 054	VIDEOSONIC	006
PENTAX	001 002 028 045	WARDS	001 006 008 009 010 028 041 045 053
PHILCO	028 057	YAMAHA	000
PHILIPS	003 028 057 058 059	ZENITH	003 030 033 035 044 055
PILOT	003		
PIONEER	045 055 060		
PORTLAND	018		
PULSAR	044		
QUASAR	028 074		
RCA	001 002 006 008 009 028 045 071		
		DVD	
		AFREEY	068
		AIWA	000 019

BRAND LIST

Brand List – DVD

AKAI	117 119	GE	002 041 048 084
ALLEGRO	099 100	GO VIDEO	018 023 094 097 100 107 141
ALPINE	001	GOLDSTAR	030
AMES	023	GPX	049 111 132
AMW	139	GRADIENTE	056
APEX	004 006 008 009 084 105 125	GREENHILL	084
BLAUPUNKT	003 041 084	HAIER	121
BODYSONIC	068	Harman Kardon	136
BOSE	093	HITACHI	018 042 043 050 051 148
BROKSONIC	007 101 104 144	HITEKER	006
CINEVISION	030	ILO	084
CLARION	022	INFINITY	068
CLASSIC	023	INITIAL	084
COBY	006 108 130 131 142	INSIGNIA	030 084 126
CONCEPT	084	INTEGRA	052
CRITERION	150	JBL	136
CYBERHOME	115	JVC	014 029 032 095 113
CYTRON	035 147	JWIN	120
DAEWOO	010	KAWASAKI	122
DENON	005 011 036 037	KENWOOD	033 036
DENZEL	148	KISS	148
Diamond Vision	128	KLH	084 129
DIGITREX	006	KONKA	024 017
DIGIX	110	KOSS	056 147
DISNEY	034	KXD	108
DUAL	035 103 133 138 148	LENOXX	119
DURABRAND	030 035	LG	030
DVD 2000	015	MAGNAVOX	013 026 034 126
ELTA	106 119	MARANTZ	013 030
EMERSON	030 034 038 039 126	MEDION	035 128
ESA	133	MEMOREX	035
FISHER	020 040	MERIDIAN	013
FUNAI	034 039 126	MICROSOFT	002

BRAND LIST

Brand List – DVD

MINTEK	044 084	SHARP	074 075
mitsubishi	015	SHERWOOD	076 118
MUSTEK	023	SHINCO	084
Myron & Davis	010	SHINSONIC	084
NAD	030 038 086	SONIC BLUE	141
NAKAMICHI	045	SONY	012 021 027 062 063 064 065 066 124 146 147
NESA	010 084	Soundstorm	080
NEXXTECH	010 110 112 133	SUPERSCAN	126
NORCENT	046 047 131 140	SUPERSONIC	111
ONKYO	052 123	SV2000	126
ORION	104	SYLVANIA	034 039 126
ORITRON	056 081	SYMPHONIC	034 126
PACIFIC	035	TEAC	084
PANASONIC	025 036 053 054 055 059 060 061 114 127 135 137	TECHNICS	036 085
PHILIPS	013 026 031 034 056 126	TECHWOOD	086
Philips-Magnavox	013	TEVION	035 138 147 150
PIONEER	016 057 058 077 078 134 145	TOSHIBA	013 028 087 088 089 102 104 109
POLAROID	116 143	Wharfedale	068
POLK AUDIO	013	White Westinghouse	034
PROLINE	056	X-BOX	002
PROSCAN	002 079	XENIUS	147
PROSONIC	131	YAMAHA	036 082 090 091
PYLE	080	YAMAKAWA	046 148 149
QWESTAR	080 081	ZENITH	030 083 099
RCA	002 003 067 084 092 096		
ROTEL	014		
SAMPO	068		
SAMSUNG	018 069 070 071 097 107		
SANSUI	072 104 144		
SANYO	020 073 098		
SEARS	104 126		
SEG	148		