User's Manual
Digital Cable Receiver

General Safety

Warning

Always follow these instructions to avoid the risk of injury to
yourself or damage to your equipment.

Unplug the receiver from the AC power outlet before cleaning.
Use only a damp cloth for cleaning the exterior of the receiver.

Do not use accessories or attachments not recommended by the receiver manufacturer
as they may cause problems to the equipment and will void the warranty.

Do not place the receiver on an unstable cart, stand, tripod, bracket, or table.
The receiver may fall, causing serious personal injury and damage to the receiver.

Do not block or cover the slot opening in the receiver.
These are provided for ventilation and protection from overheating.
Never place the receiver near or over a radiator or any heat source.
Do not place the receiver in an enclosure such as a cabinet without proper ventilation

Do not stack the receiver on top of or below other electronic devices.

The apparatus shall not be exposed to dripping or splashing and with no object filled with liquids,
such as vases, shall be placed on the apparatus.

Operate the receiver using only the type of power source indicated on the marking label.
Unplug the receiver power cord by gripping the power plug, not the cord.

General Safety

Route power supply cord so that are not likely to be walked on or pinched by items
placed upon or against them. Pay particular attention to the cords that plugs in the convenience receptacles,
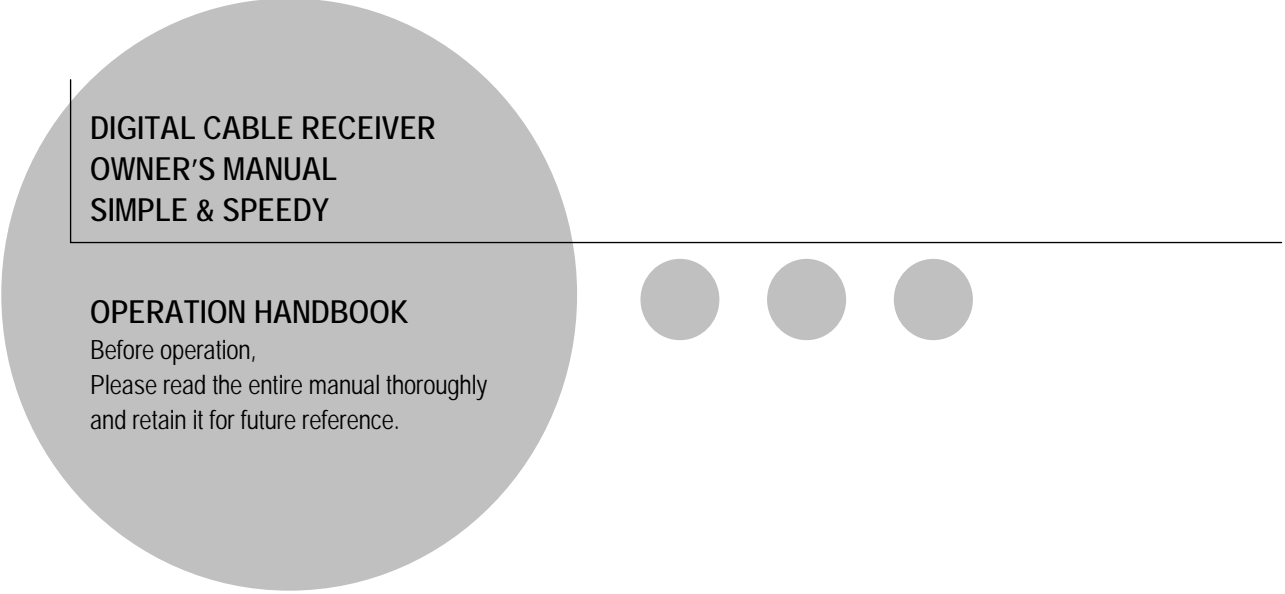and the point where they exit from the unit.
Use an outlet that contains surge suppression or ground fault protection.
For added protection during a lightning storm, or when the receiver is left unattached
and unused for long periods of time, unplug it from the wall outlet and disconnect
the lines between the receiver and the antenna. This will provide some protection
against electrical damage caused by lightning or power line surges.

Servicing

Do not attempt to service the receiver yourself, as opening or
removing covers may expose you to dangerous voltage,
and will void warranty.

Refer all servicing to authorized service personnel.

DIGITAL CABLE RECEIVER
OWNER'S MANUAL
SIMPLE & SPEEDY

OPERATION HANDBOOK
Before operation,
Please read the entire manual thoroughly
and retain it for future reference.

▷ **Class B digital device**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Channel List
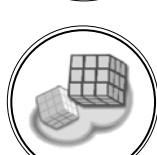
Edit Channel List

Program Guide

System Setting

Automatic Search

Manual Search

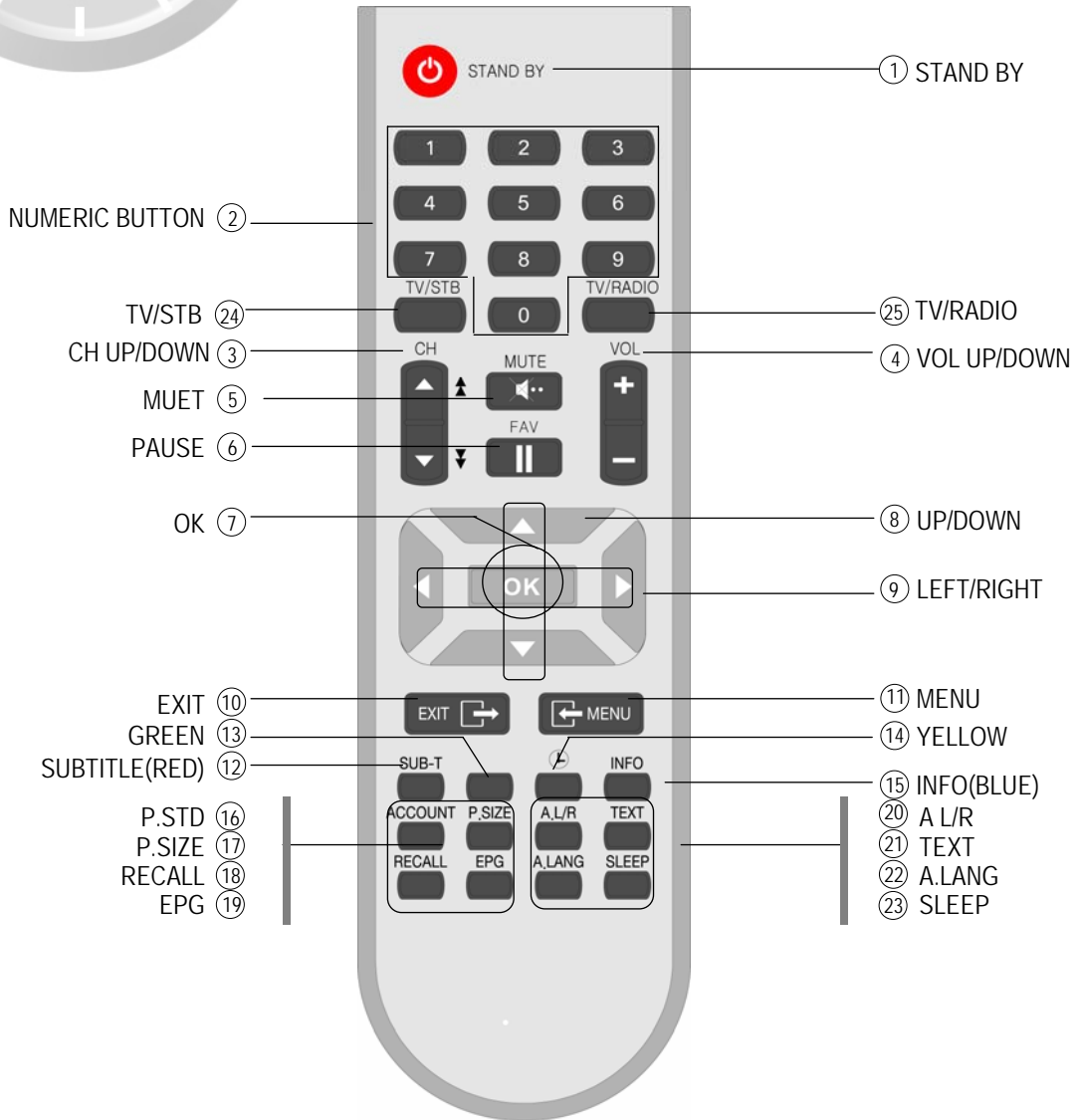CA System (Option)

Utility (Option)

Contents

Contents

Remote Control Unit

STAND BY ① STAND BY

NUMERIC BUTTON ②

TV/STB ㉔
CH UP/DOWN ③
MUET ⑤
PAUSE ⑥

OK ⑦

EXIT ⑩
GREEN ⑬
SUBTITLE(RED) ⑫

P.STD ⑯
P.SIZE ⑰
RECALL ⑱
EPG ⑲

TV/STB   0   TV/RADIO
CH   MUTE   VOL
FAV

OK

EXIT   MENU
SUB-T   INFO
ACCOUNT P.SIZE   A.L/R   TEXT
RECALL   EPG   A.LANG   SLEEP

㉕ TV/RADIO
④ VOL UP/DOWN

⑧ UP/DOWN

⑨ LEFT/RIGHT

⑪ MENU
⑭ YELLOW
⑮ INFO(BLUE)

⑳ A L/R
㉑ TEXT
㉒ A.LANG
㉓ SLEEP

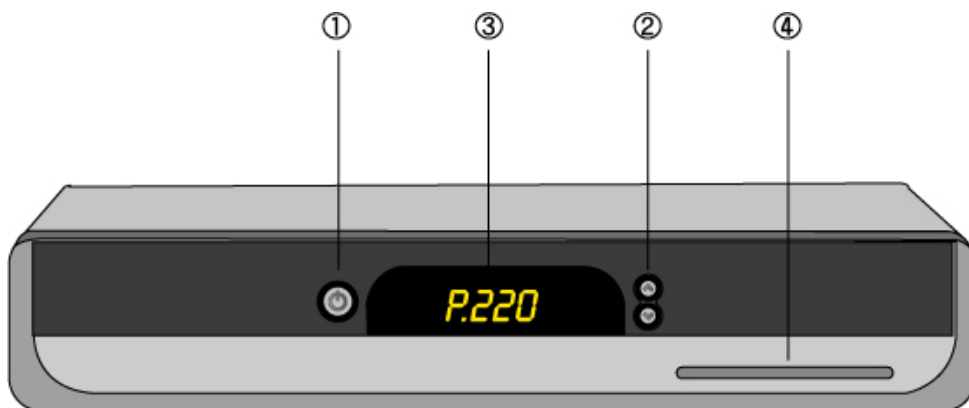**Note! 1:** When inserting batteries, make sure that the polarity (+/-) is correct.

Note! 2: The design of the Remote Control Unit may be changed without any notice in advance.

Remote Control Unit

① **STAND BY** To switch between operation and stand by mode.

② **NUMERIC BUTTONS** To select the channel and enter the channel edit and PIN code .

③ **CH UP / DOWN** To move up or down on the menu.

④ **VOL UP / DOWN** To move up or down on the menu.

⑤ **MUTE** To enable or disable audio.

⑥ **PAUSE** To pause or play video.

⑦ **OK** To confirm your choice.

⑧ **UP/DOWN** To move up or down on the menu.

⑨ **LEFT/RIGHT** To move left or right on the menu.
/ To increase or decrease the volume.

⑩ **EXIT** To return the normal viewing mode from a menu.

⑪ **MENU** To display the Main Menu on the screen or return to the previous menu.

⑫ **SUBTITLE(RED)** To enable or disable subtitle or change the channel list mode.

⑬ **GREEN** To see the current information Banner guide.

⑭ **YELLOW** To sort channel list.

⑮ **INFO(BLUE)** To display the information box on the screen.

⑯ **P.STD** To change picture standard.(Option)

⑰ **P.SIZE** To change screen size.

⑱ **RECALL** To return to the previous channel.

⑲ **EPG** To display the TV/Radio program guide.

⑳ **A/LR** To select the sound mode.(Mono,Left,Right,Stereo)
To display the reserved list.(Option)
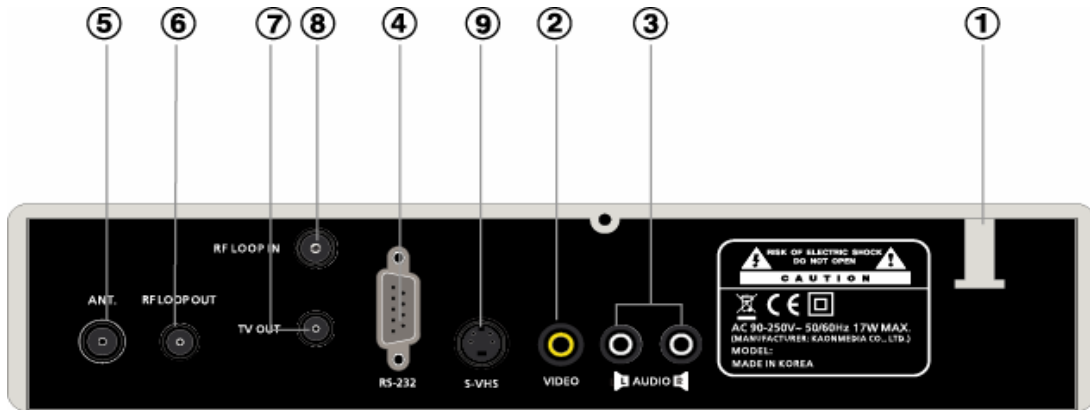
㉑ **TEXT** To see the teletext by OSD.(Option)

㉒ **A/LANG** To select the audio language

㉓ **SLEEP** To select a present time interval for automatic shut off.

㉔ **TV/STB** To switch between TV and STB receive mode.

㉕ **TV/RADIO** To switch between TV and Radio.

Front Panel

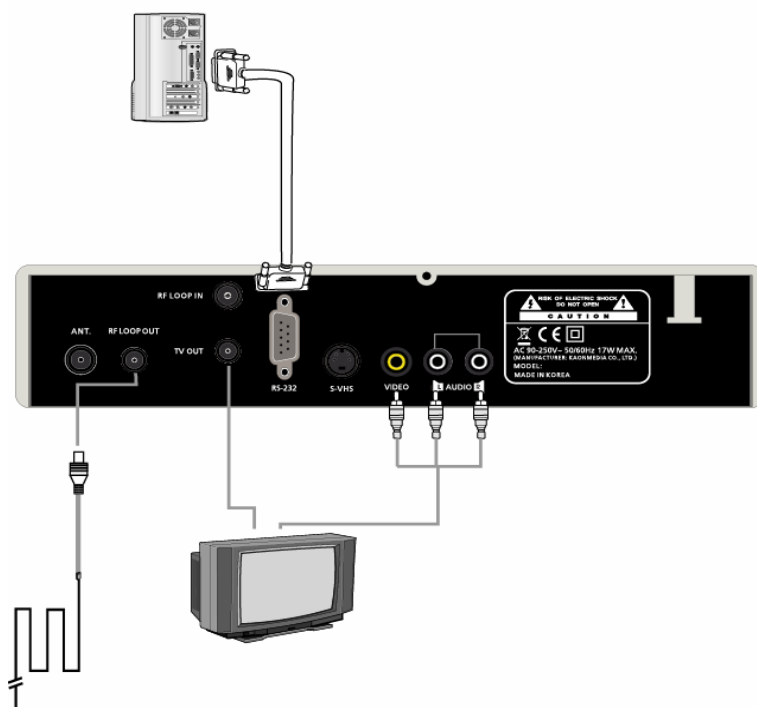|	
1.POWER(STAND BY):	Switch the receiver power "**ON**" or "**OFF**".
2. CH Up/Down :	Channel Up/Down or select item of sub-menu.
3.SEG. DISP.:	4-digit 7-segment display channel information.
4.Smartcard Slot(Option):	1Slot for Smartcard

Rear Panel

1. POWER SUPPLY	90 ~ 260V AC, 50/60Hz.
2. VIDEO	Video connection port to the TV or other equipment.
3. AUDIO	Audio connection port to the TV or other equipment.
4. RS-232	To connect to a personal computer for software upgrade.
5. ANT.	To connect to a CATV line and CATV ANT. jack.
6. RF LOOP OUT	To connect other cable receiver.
7. TV OUT (option)	To connect a TV via a coaxial cable.
8. RF LOOP IN (option)	To connect to a general aerial antenna and cable jacks to a RF input jack on the STB.
9. S-VHS	Video connection port to a TV or other equipment via SUPER VIDEO

Connection Your Equipment

How to connect your STB to various systems

There are several ways of connecting the STB to your TV and/or Hi-Fi SYSTEM. Consult your local supplier for assistance in setting-up your system that is best suited to your requirements.

1. Connect STB to a TV set
Connect your STB to a TV set with SCART(option), if your TV set is equipped for it. Alternatively you can use A/V, TV out (UHF or VHF) or S/Video jacks.

2. Connect STB to a Hi-Fi System
Connect a RCA stereo cable from the AUDIO L/R jacks, S/PDIF on your STB to the LINE, AUX, SPARE or EXTRA input jacks on your Hi-Fi System.

3. Connect STB to a Digital Audio System
If you have a DAC with S/PDIF coaxial cable input, you can connect the STB with it to enjoy higher quality sound. Connect S/PDIF coaxial cable to a digital amplifier.

4. Loop Through
If you have another analogue or digital STB and you wish to use the same CATV line then you can connect it via the loop through. Connect one end of the coaxial cable to the Loop Through on the STB and connect the other end to the CATV ANT. IN jack on your second STB.
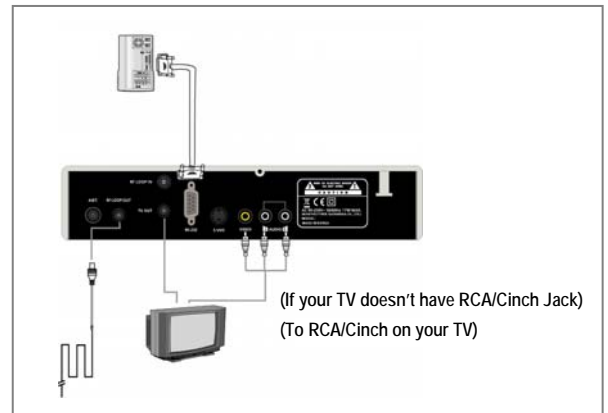
Connection Your Equipment

TV with Terrestrial Antenna

1. Connect one end of RCA/Cinch cable to the RCA/Cinch jack on the back of the STB and the other end to a RCA/Cinch jack on your TV.
   If your TV doesn't have a RCA/Cinch jack, connect one end of RF cable to the TV OUT on the back of the STB and the other end to a RF input jack on your TV.

2. Connect one end of RF cable to the ANT IN on the back of the STB and the other end to a terrestrial antenna connection or the jack for the public antenna on the wall.

(If your TV doesn't have RCA/Cinch Jack)
(To RCA/Cinch on your TV)

3. Finally connect the coaxial cable from the CATV line to the ANT. jack on back of the STB.

Connecting Your Equipment

Reference

1. Upgrade via Personal Computer

To maintain the STB up-to-date, it will be possible to upgrade the software of the STB via STB and personal computer.

New versions of the software may include new or improved functions for the latest update.

1. Go to the Homepage and check the latest software to upgrade.
2. Download the latest software of your STB model to your PC directory.
3. Connect a cable between the COM1 port of your PC and RS232 port of the STB.
4. After that connection, make sure the STB is in STANDBY status. (Front panel displays)
5. Then, run the downloaded file by double click it on your PC.
6. Then, power on STB by pressing the power button of front panel or by pressing the power button of RCU.
7. Then, upgrading starts, the PC will shows the progress in the window, and also will `dnLd` `UP9r` appear on the front LED of the STB.
8. When the upgrading is completed, `End` appears.
9. Then, you have to power off and on for running the new software.
10. You can check to see the correct version was installed by comparing the software version in the system information setup menu.

Connection Your Equipment

Front Panel Display Message

KEY & DISPLAY The message of the 7-segment LED (Light-Emitting Diode) on the STB and keys are explained as below.

`----`	Standby Mode	`P 10 1`	Current program number on TV list
`on`	System Booting	`A 10 1`	Current program number on RADIO list
`oFF`	Power Off	`tu`	TV Mode
`u 100`	MICOM Version	`Stb`	STB Mode
`L 10 1`	Boot loader Version	`UP9r`	Upgrade
`dnLd`	Download	`UP00`	Upgrade procedure
`dn00`	Down load procedure	`End`	Upgrade end

Basic Function

1. Program Information

After the television channels have been programmed, you will see the information box each time you change the channels.

1. Every time you change channels you will receive program information for a few seconds. (In the "**Banner Time**" menu you can select how long this information will be shown.)

2. You may change channel lists with the up or down button.
   You can get "**Channel Banner**" on the bottom of the screen.

3. When you press the color button, you can use banner as a simple channel operation. In this case, you can get a simple EPG on right view.

2. Now-Information Banner

1. During "**Channel Banner**" is appearing, when you press **GREEN** Button, you can get "**Now-Information Banner**".

2. Using "**Now-Information Banner**", you can get a simple EPG of "**Now-Information**".

3 . Next-Information Banner

1. During "**Channel Banner**" is appearing, when you press **YELLOW** Button, you can get "**Next-Information Banner**".

2. Using "**Next-Information Banner**", you can get a simple EPG of "**Next-Information**".

Basic Operation

Basic Function

4. Channel-Information Banner

1. During "**Channel Banner**" is appearing, when you press **INFO(BLUE)** Button, you can get "**Channel-Information Banner**".

2. Using "**Channel-Information Banner**", you can get a detailed channel listing Information.

5. Volume Control/Mute

1. To control audio volume, press **LEFT/RIGHT(/)** buttons.

2. Volume control bar will be appeared in bottom of the TV screen.

3. After time-out in 1 second, volume control bar will disappear.
   To temporarily stop the volume, press the **MUTE** button,
   To cancel mute, press the **MUTE** button again or press
   the **LEFT/RIGHT(/)** buttons.

6. Teletext / Subtitle

1. Press the **RED** button, popup window will be displayed on the screen.
2. Select the off, then subtitle function is off.
3. Select the Subtitle, then you can see the Subtitle language.
4. Press the **TEXT** button, then you can see the Teletext.

Basic Function

7. Timer

The user can reserve a desired program at a desired time by using the **Timer** function.

Pressing the **YELLOW** button in AV mode will open the **Timer** Window.

1. Daily, Weekly, Monthly Reservation.

   Use the **UP/DOWN**( ), **LEFT/RIGHT**(/) buttons in the Timer

   Setting screen to select the date and time.

   Press the **OK**( ) button to save the selected time.

The program will reserve at each and every selected time.

   Once   : once
   Daily : daily
   Weekly : weekly
   Off   : off

2. Reservation from EPG(Option)

   Select the desired program to be reserved from the EPG screen.
   Pressing the **YELLOW** button will open the **Timer** Window.

8. Simple Channel List

1. When you press **OK**( ) button during receiving service stream, you can get **"Channel List"** view.

2. Using **UP/DOWN**( ) buttons in "**Channel List**" view, you can choose another channel.

3. After moving highlight on a channel, then press **OK**( ) button.

4. Press **RED** button to change channel listing.

5. To get the channel sort list, press the **YELLOW** button.
   Pop up window will be displayed on the screen.
   When you press **YELLOW** button, the sort and CAS sort are toggled.

6. Select the sort list you want with up/down buttons and then press **OK**( ) button to get it.

Basic Function

9. Soundtrack

1. When you want to change the Audio Language of current channel, press the **A/LANG** button on the remote control.
   The on-screen menu is displayed on the left side of the screen.

2. Use **UP/DOWN**( ) buttons to choose the audio you want.

3. To cancel or exit, press the **A/LANG** button again.

You can change a default audio language in the system setting menu mode.

10. To change the audio output

1. Press the **A/LR** button on the remote control unit to change the output.

2. Then on-screen menu is displayed on the top right side of the screen.

3. Press the **A/LR** button repeatedly to change the sound mode.
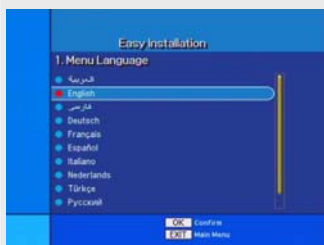
   (Mono, Left, Right, Stereo)

Basic Operation

Memo

Basic Operation

Easy Installation

Before you can view the television or radio program, you must perform the installation procedure first.
Therefore you will see only "Easy Installation Menu" at first when you plug in your system.
The Easy Installation gives you the convenience of selecting various languages, adjusting the time and channel search.

1. Automatic Installation by "Easy Installation"

The Installation Wizard is user friendly to assure easy set-up of the receiver by the new user.

2. System Connection

Connect STB to all peripheral devices such as TV, Audio, Video etc

3. Power On

Turn on the STB power and other devices.

4. Power Off

When you press the STAND BY button again.
The STB will display "OFF".

Easy Installation

Language

The first option is "Language Select" to select the desired language of
the Menu, Audio, or Subtitle.
Place the cursor on the sub menu by pressing the keys and press
the OK($\circledcirc$) button to change language.
The Language of Menu, Audio, or Subtitle will be changed to the selected
language.

Local Time

You can set your local time according to your location.
To set the local time, press **NUMERIC** buttons.

Channel Search

You can search the channels according to the Automatic or Manual mode.

Press OK($\circledcirc$) button. Channel Search screen will appear.

Menu Guide

Main Menu

Press the MENU button on the remote control unit.
You will see the "Main Menu" on the screen.

1. You can move into the desired submenu using **UP/DOWN**(⬍) buttons.
2. You should enter the PIN code in order to move into the corresponding submenu in case of "**Edit Channel List** or "**System Setting**".
3. Press **OK**(⊙) button to confirm your selection.
4. Press the **MENU** button to return to previous menu.
   Or press the **EXIT** button to quit the Menu system completely.

Main Menu shows the following information.

|	
Channel List	: Shows Favorite 1~8, all channels, sort, CAS sort.
Edit Channel List	: Edits Favorite 1~8, Lock, Skip, Delete, Move.
Program Guide	: Shows Now, Next, Weekly Program guide.
System Setting	: Set Menu Language, Audio Language, Subtitle Language, SCART Output, Screen Type, Banner Time, RF mode, RF Channel, Local Time, Menu Transparency, Change PIN Code, Parental Lock, Receiver Lock, Menu Lock, SPDIF Output., Auto Power, Factory Reset and System Information.
Automatic Search	: Search automatically Channels.
Manual Search	: Search manually Channels.
CA System(option)	: Shows CAS Information
Utility(Option)	: Game, Demonstration, Calendar, Zoom, Calculator.

Channel Search

Select Automatic/Manual channel search in main menu.

Automatic Search

1. Press Automatic Search in Main Menu.
2. Input a proper Start Frequency of the cable signal using **NUMERIC** buttons .
3. Input a proper End Frequency of the cable signal using **NUMERIC** buttons .
4. Input a proper Symbol Rate of the cable signal using **NUMERIC** buttons .
5. Select the Constellation(AUTO, 16, 32, 64, 128 or 256 QAM)
   using **LEFT/RIGHT**(/) buttons
6. press **OK**( ) button.
7. When searching is started, the name of channels searched will be displayed on the screen.
8. When searching is finished, the "Search finished" message will be displayed on the center of the screen.
9. Press the **OK**( ) button to save the channel list and watch the channel searched.

Menu Guide

Channel Search

Manual Search

1. Press Manual Search in Main Menu.
2. Input a proper Frequency of the cable signal using **NUMERIC** buttons .
3. Input a proper Symbol Rate of the cable signal using **NUMERIC** buttons .
4. Select the Constellation (AUTO, 16, 32, 64, 128 or 256 QAM)
    using **LEFT/RIGHT**(/) buttons
5. Select the spectral Invert (Auto, Off or On)
6. Select for the Network Search(Off or On). When you select **"On"** ,
    you can find more services using the home network.
7. press **OK**( ) button.
8. When searching is started, the name of channels searched will be displayed
    on the screen.
9. When searching is finished, the "Search finished" message will be displayed
    on the center of the screen.
10. Press the **OK**( ) button to save the channel list and watch the channel
     searched.

Channel List

This menu helps you to easily select the channel that you want to watch. You can see the channel list when you had searched before. To use this menu, you should set channel group you want in the channel control menu.

1. Select "**Channel List**" in the main menu with **UP/DOWN**(⏄) and press **OK**(⊙).

2. Using **UP/DOWN**(⏄) button, you can choose your channel with small-sized video view on right side.

Note: To get the full-sized video view, press **EXIT** button.

3. To see the available channel list, use the **SUBTITLE(RED)** button on the remote control unit repeatedly.

   The channel list moves in the following sequence :
   ALL -> Favorite from 1 to 8.

4. Press the **TV/RADIO** button to toggle between TV channel list and Radio channel list.

5. To get the channel sort list, press the **GREEN** button. Pop up window will be displayed on the screen.

6. Select the sort list you want with **UP/DOWN**(⏄) buttons and then press **OK**(⊙) to get it.

   Normal : ALL, Lock, A~Z, Z~A.
   CAS : ALL, FTA/Etc.

   Network : ALL, network which you have searched.

   Genre : ALL, Movie, News and Factual, Entertainment, Sport, Factual, Education,
   Lifestyle, Drama, Music, Arts, Current Affairs, Special, Comedy, Documentary.

DIGITAL CABLE RECEIVER

Menu Guide

Edit Channel List

From these menus,
You can create favorite lists, lock, skip, delete, or move
channel.

1. Select "**Edit Channel List**" in the main menu with **UP/DOWN**(⊜) buttons and press **OK**(⊛) button.

2. At the request window, Input PIN code.
   If you have not entered your own PIN code, then the PIN code **0000** applies, which was set at the factory.

3. Press the **SUBTITLE(RED)** button. The edit list will be displayed on the screen.
   Select the sub menu you want in the list and press **OK**(⊛)button.
   The selected sub menu will be displayed at the right folder.

4. Among the all channel list, the selected channel can be moved to the right folder of Favorite 1~8, Lock, Delete, Skip, Move.
   Press **OK**(⊛)button to add from edit list at right folder.

5. To remove the channel list from edit list at right folder, press **OK**(⊛) button.
   The edited list will be removed.

6. To rename the channel, press **YELLOW** button.

7. To confirm the channel list, press the **MENU** button or **EXIT** button.
   The request window will be displayed on the screen,
   Press **OK**(⊛) button to save or **EXIT** button to exit this menu.

Edit Channel List

1. Favorite 1 ~ 8(Option)

1. You can edit favorite TV and Radio list.

   This enables you to create the 8 favorite TV and Radio lists.

2. Select the channel you want to edit favorite list and press **OK**(⊙) button.

Note: To rename the Favorite channel, press **INFO(BLUE)** button.

2. Lock

1. From here you can lock channels in any of the list in order to prevent
   e.g. your children from watching.
2. Select the channel you want to lock and press **OK**(⊙) button.
3. Repeat the procedure for each channel you want to lock.
   When you lock a channel in any list, the channel will be
   locked automatically in all other lists.

3. Delete

1. You can delete TV or Radio channel from the current list.
2. Select the channel you want to delete and press **OK**(⊙) button.

DIGITAL CABLE RECEIVER

Menu Guide

Edit Channel List

4. Skip

1. You can skip TV or Radio channel from the current list.
2. Select the channel you want to skip and press **OK**(⊙) button.
3. To recover the skipped channel, press the **OK**(⊙) button from edit list.

5. Move

1. You can change the position of the channel you want on the TV/Radio/All channel lists.
2. Select the channel you want to move to desired channel and press the **OK**(⊙) button.
3. And press the **INFO(BLUE)** button to change the position of the channel you want.
4. Using **UP/DOWN**(⊙) buttons, select the channel you want to move and press **OK**(⊙) button.
5. The position of the channel will be moved.

6. Genre

1. You can edit TV and Radio list of the genre which is various.

   (Movie, News and Factual, Entertainment, Sport, Children's, Factual, Education, Lifestyle, Drama, Music, Arts, Current Affairs, Special, Comedy, Documentary.)

2. Select the channel you want to edit genre list and press **OK**(⊙) button.

Program Guide

*The program guide supplies information such as program listings and ending times for all available programs.*

1. Select "**Program Guide**" in the main menu with **UP/DOWN**( ) buttons and press **OK**( ) button.
   In the viewing program, when you press the **EPG** button, you can get this view.

Note: The Program Guide information may not be supplied by service providers.

Now / Next Program Guide

Shows the information of Present/Following program on different channels.

*To watch the programs you go through the display window :*

1. Select a program with **UP/DOWN**( ) buttons, you can get the list at right-side view.
2. Use the **SUBTITLE(RED)** button to change the channel list.
3. After selecting the program you want, press **OK**( ) button.
   You can see the detailed information.
4. If you want to change program guide, press **INFO(BLUE)** button.

Weekly Program Guide

Shows the information of program that will be played for a week.

1. When you press **INFO(BLUE)** button, you can alternatively select Now, Next or Weekly EPG.
2. To see more information about the program you want on the weekly EPG, move the highlighted channel by pressing **LEFT/RIGHT**(/), **UP/DOWN**( ) buttons and then press **OK**( ) button.

EPG Information

1. To view the Program Guide, press the EPG button on the remote control unit.
   The EPG information will be displayed on the bottom of the screen.
2. Each press of UP/DOWN( ) buttons will change the displayed EPG information by one hour.
3. Each press of LEFT/RIGHT(/) buttons will change the displayed EPG information by one day.
4. If there is available EPG information, it will be displayed on the EPG information bar.
5. Press the EPG button again, and the Program Guide menu will be displayed.

DIGITAL CABLE RECEIVER

Menu Guide

System Setting

You will be asked to enter your PIN code before you can enter this menu. The PIN code preset to 0000 from the factory. The code can be changed from the "Change PIN Code" menu. Refer to page 30.

If you want to customize the system to suit you better, you can specify some settings from the submenus in the "System Setting" menu.

1. Select "**System Setting**" in the main menu with **UP/DOWN**(⬍) buttons and press **OK**(⊙) button.

2. Select sub menu you want in System Setting with **UP/DOWN**(⬍) buttons. The sub menu will be shown at the right side of the screen.

3. Using right button to move the cursor on the sub menu or return to "**Setup List**" using **LEFT**(◁) button.

1. Menu Language

Here you may select in which language the menus will be shown.

1. Use the **UP/DOWN**(⬍) buttons to move to the language you want and then press **OK**(⊙) button.
   You can choose the language from a selection of **English**, **Espanol**, **Suomi**, **Norsk**, **Svenska**, **Deutsch**, **Francais and ect**..
   The selected menu language will be applied on whole menu.

2. Audio Language

In this menu You can change default language for audio when changing services.

1. Use the **UP/DOWN**(⬍) buttons to move to language you want and then press **OK**(⊙) button.
   You can choose the language from a selection of **English**, **Spanish**, **Finnish**, **Norwegian**, **Swedish**, **German**, **French and** etc

System Setting

3. Subtitle Language

In this menu You can change default language for subtitle when changing services.

1. Use the **UP/DOWN**(⬍) buttons to move to language you want and then press **OK**(⊙) button.
   You can choose the language from a selection of **English**, **Spanish**, **Finnish**, **Norwegian**, **Swedish**, **German**, **French and** etc. .

4. SCART Output (option)

If your SCART supports RGB control, select RGB. Otherwise select CVBS.

5. Screen Type

If you have a TV set with the 4:3 picture format and the transmission is in 16:9, you can select 4:3 letterbox, 4:3 full screen and 16:9 full screen.

1. Select the aspect ratio of **TV** which is connected to **STB** and then press **OK**(⊙) button.

Note 1: Fullscreen will fill up the screen but cut off some information on the left and right sides.

2: Letterbox will give a complete picture, but leave black areas at the top and bottom.

3: For easy selection of Screen Type, press the **P.SIZE** button on your remote control.
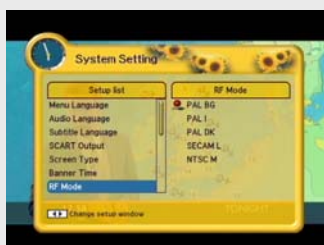
DIGITAL CABLE RECEIVER

System Setting

6. Banner Time

When you switch channels, an information banner will be shown for a few seconds.
You can select for how long the banner will be shown.

1. Select the banner time you want and then press **OK**(⊙) button.

2. Each selectable time items has meaning of the interval time during a channel banner stays on changed channel screens.
   The time ranges 3,6,9,12 and 15 seconds.

7. RF Mode (option)

You can select the RF Mode . If you get picture but no sound, the RF Mode selecting might be wrong.

Select an RF Mode and then press **OK**(⊙) button.

RF Mode : PAL BG, PAL I, PAL DK, SECAM L, NTSC M

8. RF Channel (option)

Select this alternative if you have to change the RF channel.

Select an UHF or VHF Channel you want with **UP/DOWN**(⊛) buttons.

The UHF RF Channel ranges from 21 to 69.

The VHF RF Channel ranges from 3 to 4.

System Setting

9. Local Time

You can set your local time according to your location.

1. To set year, month and date, press **UP/DOWN**(⬥) buttons.
   The Calendar pop up window will be displayed.
   Select year using **SUBTITLE(RED)** and **GREEN** button.
   Select month using **YELLOW** and **INFO(BLUE)** button.
   Select date using **UP/DOWN**(⬥) or **LEFT/RIGHT**(◁/▷) buttons.

2. Adjust hour and minute with **UP/DOWN**(⬥) buttons
   and move the field with **LEFT/RIGHT**(◁/▷) buttons.

3. When the **OK**(⊙) button is pressed, the selected time applies.

10. Menu Transparency

From 20 to 63 will give the variable transparency on Video and OSD screen.

Select an menu blending ratio and press **OK**(⊙) button.
The transparency will be applied on the screen.

11. Change PIN Code

From here you can change the PIN code from the standard 0000.
<u>DO NOT FORGET IT!</u> Without it, you are not able to access to any of the functions where the code is required.

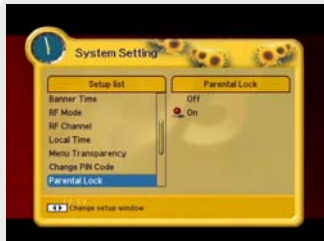You can change password for Parental Lock and Receiver Lock simultaneously.

1. Input the current PIN code using numeric button on the remote control.
2. In the highlighted new PIN code, input a new PIN code.
3. To verify the new PIN code, re-enter a new PIN code in the highlighted
   confirm PIN code. If the PIN code is correct, the message "**Success**" will be
   displayed on the display window.

Note : If you forget the PIN code, press the **RGYB**(Color) button in sequence.
   (i.e. **RED**-> **GREEN**-> **YELLOW**->**BLUE** button)
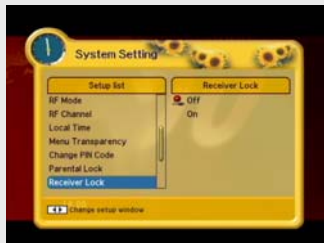   The PIN code will be changed to '0000'

DIGITAL CABLE RECEIVER

System Setting

12. Parental Lock

When you change "Parental Lock" to "On" or "Off", service channel can get or not from that set values. If you select "On", you may need PIN code every time you select the lock channel program as you set in the channel control.
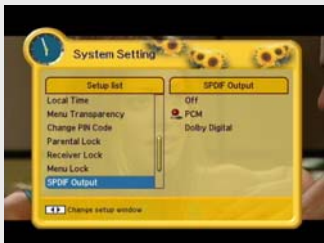*If you select "Off", you can see all channels without PIN code.*

13. Receiver Lock

If you select "On", you will have to enter the PIN code every time you start the receiver from standby.

14. Menu Lock

If you select "On", you will have to enter the PIN code every time when you enter the Installation Menu and the Channel Edit Menu.

15. S/PDIF Output (Option)

You can hear digital audio of the Dolby 5.1 channel using S/PDIF Output

1. If selecting OFF, the digital audio will not be output.

2. When selecting PCM, the unzipped digital audio is output through S/PDIF.

3. When selecting Dolby Digital, if the current channel is dolby audio channel, the zipped dolby stream is output through S/PDIF.

System Setting

16. Auto Power (option)

1 . If the Auto Power is set to On and power is off, the Set turns on automatically and turns into the channel mode which you were watching before power breakdown.

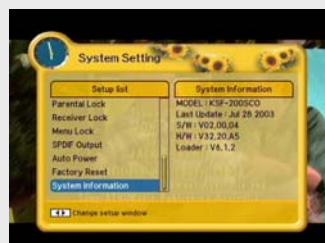*2. If the Auto Power is set to Off and power is off, the Set turns into the standby mode.*

17. Factory Reset

Use this option only if you have to start the complete installation procedure from scratch. If you continue from here, all your previous settings and all channels will be cleared ! The default data will be loaded.

If you press OK (⊙) button, it asks for your confirmation.
If you want to reset, press OK (⊙) button, or press EXIT button to exit this menu.

18. System Information

Displays the system information :
MODEL name, Last Update, S/W, H/W, Loader version information

CA System (Option function)

The menus are provided by Smartcard.

Your receiver is equipped with one Smartcard slot,
Plug in the appropriate a valid Smartcard. You will then
have access to the respective scrambled and Pay-Per-View services.

Insert the Smartcard into the Smartcard Slot on the front panel.
The Smartcard determine the programs that can be de-scrambled.
You can view you entitlement via the **CA System** menu by using the
MENU button as below.

1. Press **MENU** button and select CA System then Smartcard Slot will be
   showed up on the screen and the menu will be appeared.
   If you use Slot 1 for Conax, you will see "**Conax**" on the screen.
   Select the item and then you will see information for card.
   Press **EXIT** button if you wish to exit from this menu.

2. If you inserted the Smartcard, and switch on the receiver.

3. If you do not insert the Smartcard, you will see the message
   "**Not Installed**".
   If you insert the Smartcard into the Smartcard slot then you can watch
   you selected channel.

DIGITAL CABLE RECEIVER

Menu Guide

Utility (Option function)

1. Game

1. Select "Game" in the Utility menu with **UP/DOWN**( ) buttons and press **LEFT/RIGHT**( ) button.
2. Select the game you want to play and press **OK**( ) button, and then you can play the game..

Tetris
Hexa
Puzzle
Slider
Mine
Snake
Pocker
BlackJack
Sokoban and etc...

2. Demonstration

Select "Demonstration" in the Utility menu with **UP/DOWN**( ) buttons and press **OK**( ) button, you can see the Automatic Operation Function. Press the **EXIT** button to quite the Automatic Operation Function completely.

3. Calendar

Select "Calendar" in the Utility menu with **UP/DOWN**( ) button and press **OK**( ) button, you can see the Calendar.

Menu Guide

Utility (Option function)

4. Zoom

Select "Zoom" in the Utility menu with **UP/DOWN**( ) button and press **OK**( ) button,

5. Calculator

Select "Calculator" in the Utility menu with **UP/DOWN**( ) button and press **OK**( ) button, you can see the Calculator.

DIGITAL CABLE RECEIVER

Troubleshooting

Problem	Solution
No display LED on the front panel. *No power supply*	Power cord plug in correctly.
No Picture	Ensure that the STB is switched on. Check connection and correct. Check channel and video output and correct.
Poor picture quality	Check the signal level, if this is low then try adjusting the Alignment of your dish.
No Sound	Check the volume level of the TV and STB. Check the mute status of the TV and STB. Check the connection of audio cord.
Remote Control does not operate	Point remote control directly towards the receiver. Check and replace batteries. Check that nothing blocks the front panel.
Service is not running or scrambled	Check the whether the Common Interface module and Smartcard is correctly inserted. Check that the Smartcard is appropriate for the selected Service.
You have forgotten your secret PIN code.	Refer to 11. Change PIN code(Page 30) of This owner's manual.

Technical Specifications

Tuner

Demodulation	QAM
Constellation	16, 32, 64,128, 256
Input Connector	IEC 169-24, Female(75 Ohm)
Frequency Range	51MHz ~ 858MHz
Symbol Rate	0.87 ~ 11.7 Mbaud

RF Modulator

PLL type	UHF(CH 21~69) or VHF(CH 3~4) for the modulation
TV Standard	PAL B/G, I, D/K, NTSC M selectable
RF Connector	75 Ohms, 169-2, Male/Female
Frequency Range	UHF: 470 ~ 860MHz / VHF: 55.25 ~ 63.25MHz

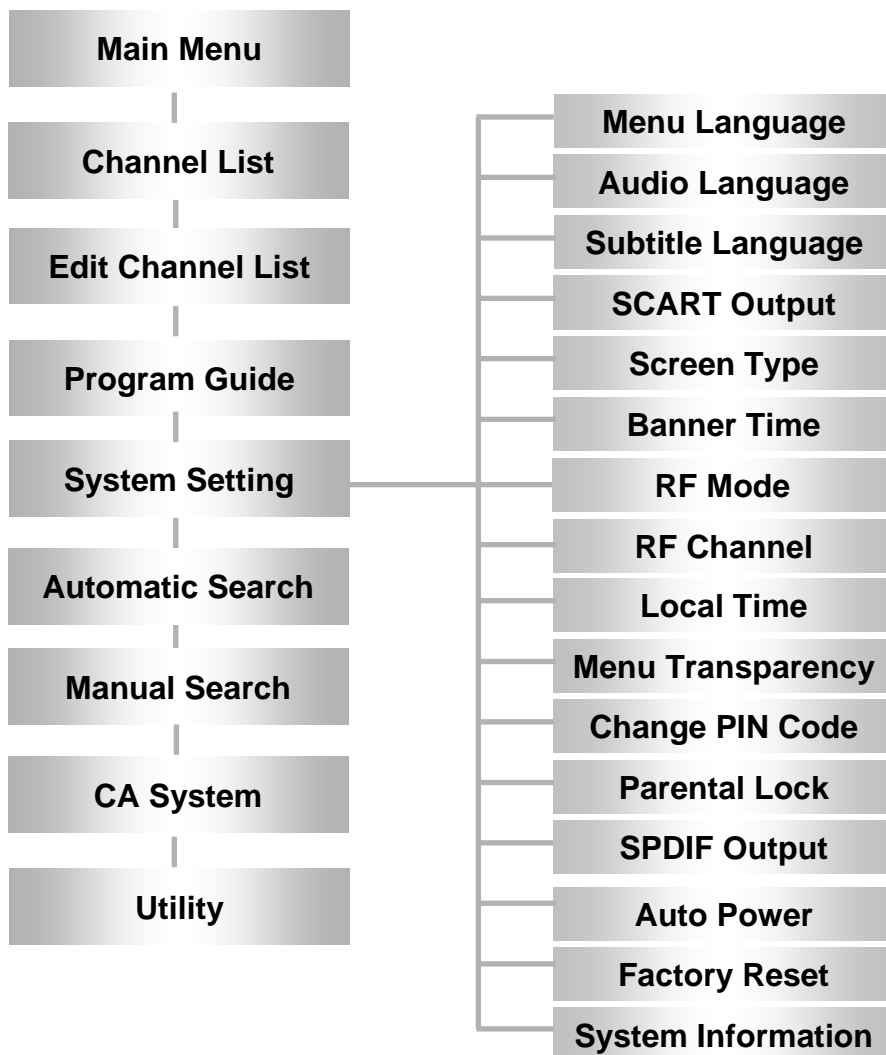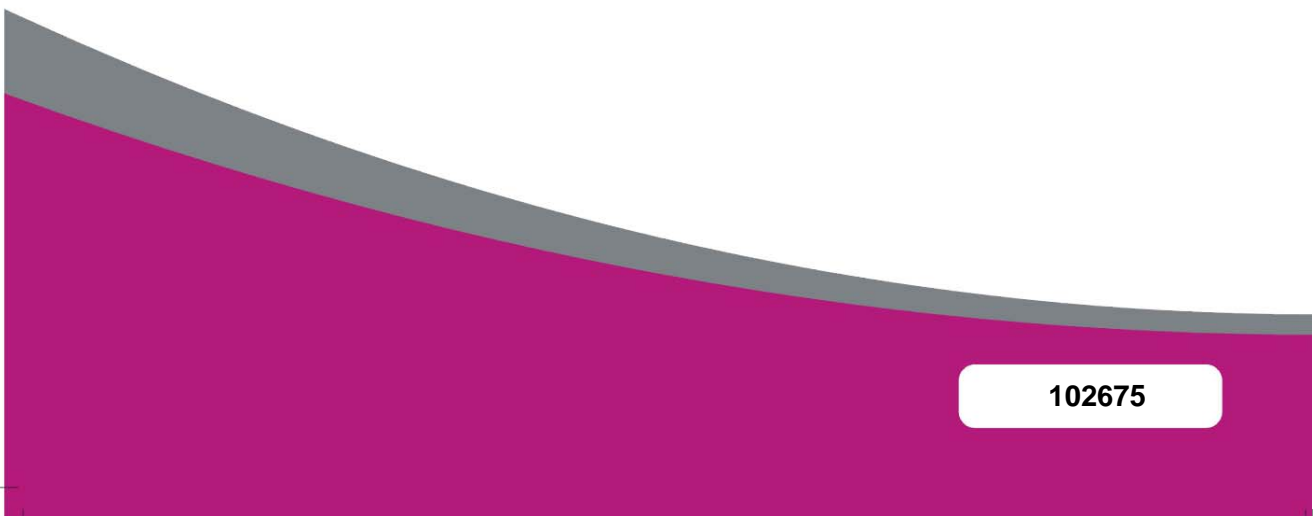## MPEG TS A/V Decoder

Video Resolution	720 * 576
Input Bit Rate	Max. 90 Mbit/s
Transport Stream	MPEG-2 ISO/IEC 13818-1
Audio Decoding	MPEG/Musical Layer 1 & 2
Audio Mode	Single / Dual Channel

Technical Specifications

A/V & Data Input/Output

Video	RCA/Cinch, Video Output(CVBS)/SCART(CVBS,RGB). RCA/Cinch Volume & Mute Control
Audio	(Resolution: 20 bits DAC, Max 2Vrms) S/PDIF of Dolby Digital Bitstream Out
RS-232C	Transfer rate 115Kbps, 9 PIN D-Sub Type

System Resources

Flash Memory	1Mbyte, 2Mbytes (Optional)
SDRAM	8Mbytes, 16Mbytes (Optional)
Main CPU MPEG Chip	STi 5518

Power Supply

Input Voltage	AC 90 to 260V, 50/60Hz
Power Consumption	Max. 25W
Protection	Separate Internal Fuse
Type	SMPS

Physical Specification

*Size (W * H * D)*	180 * 45 * 250 (mm)
Net Weight	1.2kg
Operating Temperature	0 °C ~ 50 °C
Storage Temperature	-20 °C ~ 60 °C

Option Function

Embedded CAS	TF-CAS / ChinaCrypt / NDS / IRDETO / Nagravision.,etc
SW Upload	RS-232C (Optional Via OTA)

Menu Map

Main Menu

Channel List

Edit Channel List

Program Guide

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Manual Search

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Utility

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Audio Language

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System Information

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