

Digital Cable Set-Top Box

NDS VideoGuard embedded

***hathw@y***

**ND-1000C**

**User Manual**



**HUMAX**  
your prime time

# Notice

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Thank you for purchasing a HUMAX Digital Cable Set-Top Box.

Please read this User Manual carefully to be able to safely install, use and maintain the Set-Top Box at maximum performance. We suggest that you keep this user manual next to your Set-Top Box for future reference.

## **Warranty Exclusions**

Warranty is not applicable in case other than defects in materials or workmanship and in particular, does not cover:

- Defects caused by unauthorized repair, maintenance, modification or improper use, use of non-HUMAX / non-Hathway parts and components not supplied by HUMAX / Hathway.
- Defects caused by lightning, water, fire, acts of war, public disturbance or any other cause beyond Hathway's control.
- Products where the label bearing the serial number has been tampered, defiled, removed or illegible.
- Products where the warning label on main PCB boards is broken.
- Defects caused by use of illegal software.

**NB:** The information in this document is subject to change without notice.

# SPECIAL NOTICE

## **DO NOT SWITCH OFF THE SET-TOP BOX**

- THE SET-TOP BOX SHOULD ALWAYS BE KEPT IN THE STANDBY MODE WHILE NOT WATCHING TV AND SHOULD NOT BE POWERED OFF FROM THE 230 V MAINS SWITCH OUTLET EVEN OVERNIGHT.
- IF THE SET-TOP BOX IS SWITCHED OFF FROM THE MAINS, IT WILL NOT RECEIVE IMPORTANT UPDATES AND INFORMATION TRANSMITTED FROM THE HEADEND OVER THE CABLE.
- ALSO THE SET-TOP BOX WILL TAKE AT LEAST 20 SECONDS EVERY TIME TO SWITCH ON IF THE MAINS POWER WAS SWITCHED OFF.

## **SMART CARD**

- THE SMART CARD SHOULD BE INSERTED GENTLY INTO THE SMART CARD SLOT TILL IT STOPS. ABOUT 1 CM OF THE CARD WILL REMAIN OUTSIDE.

## **VIEWING ANALOG FREE-TO-AIR**

- THIS SET-TOP-BOX PROCESSES ONLY DIGITAL SIGNALS AND THE ANALOG FREE-TO-AIR SIGNALS ARE SIMPLY LOOPED-THROUGH THE SET-TOP BOX. HENCE THE STB HAS TO BE IN STANDBY MODE TO VIEW THE ANALOG FTA CHANNELS. IF THE MAINS POWER TO THE STB IS SWITCHED OFF, YOU CANNOT VIEW THE ANALOG FTA CHANNELS.

# Notice

Read this manual carefully and make sure you understand the instructions provided. For your safety, check what the result of each action will be.

## Warnings, Cautions, and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**

Indicates a hazardous situation which, if not avoided, could result in (serious) injury.

- **Caution**

Indicates a situation which, if not avoided, could damage the equipment or other apparatus.

- **Note**

Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and maintain the installation.



To reduce the risk of electrical shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates dangerous voltage inside the product that presents a risk of electrical shock or personal injury.



This symbol indicates important instructions accompanying the product.

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# Safety and Warning

This digital cable Set-Top Box has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

## Safety Instructions and Precautions

### 1. MAINS SUPPLY

90 - 250V AC 50/60Hz

Operate your product only from the type of power source indicated on the marking label. Disconnect the Set-Top Box from the mains before you start any maintenance or installation procedures.

### 2. OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in fire or shock.

### 3. LIQUIDS

The Set-Top Box should not be exposed to any liquids dripping or splashing onto it. In addition, no objects filled with water, such as vases, should be placed on the Set-Top Box.

### 4. CLEANING

Disconnect the Set-Top Box from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the Set-Top Box.

### 5. VENTILATION

The slots on the Set-Top Box must be left uncovered to allow proper airflow to the unit. Do not stand the Set-Top Box on soft furnishings or carpets. Do not stack any electronic equipment on top of the Set-Top Box.

### 6. ATTACHMENTS

Do not use any unsupported attachments, as these may be hazardous or cause damage to the Set-Top Box.

### 7. CONNECTION TO THE CABLE TV SIGNAL AND TV

Connect all components before plugging any power cords into the wall outlet. Always turn off the Set-Top Box, TV and other components before you connect or disconnect any cables.

### 8. LOCATION

Place the Set-Top Box indoors to avoid exposing it to lightning, rain or sun. Do not place it near a radiator or heater.

Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR. Do not block these openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface. If you place the product on a rack or bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.

Do not place the product on an unstable cart, stand, tripod, bracket or table from where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance

## **9. LIGHTNING, STORM, or NOT IN USE**

Unplug the product from the wall outlet and disconnect the Cable input during a thunderstorm or when left unattended and unused for long periods of time.

This will prevent damage to the unit due to lightning and power-surges.

## **10. EXTRANEIOUS OBJECTS**

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

## **11. REPLACEMENT of PARTS**

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer, or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.

## **Warning**

1. Follow these directions in order not to damage the power cord or plug.  
Do not modify or process the power cord or plug arbitrarily.  
Do not bend or twist the power cord too much.  
Make sure to disconnect the power cord with the plug held.  
Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
2. Follow these directions. Failure to follow one of them may cause electrical shock.  
Do not open the main body.  
Do not insert metals or inflammable objects inside the product.  
Do not touch the power plug with wet hands.  
Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, a serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or extraneous objects into the slots for smart cards.  
This can cause damage to the Set-Top Box and reduce its life span.

# Security Instructions

For your security and to prevent damage, please read the following safety instructions carefully.

## Power Related

Do not overload a wall outlet, extension cord or adapter. There is a danger of an electric shock or fire.



Do not disconnect the power cord by simply pulling the plug, or with a wet hand. There is a danger of an electric shock or fire.



Avoid bending or twisting the power cord. There is a danger of an electric shock or fire.



## For Installation

The Set-Top Box should not be exposed to any liquids such as water or moisture. There is a danger of an electric shock or fire.



Do not place inflammable objects such as a candle or cigarette on the Set-Top Box or near vents. There is a danger of a fire.



Do not install in an airtight place. There is a danger of a fire.



## For Installation

Do not install in an unstable place. Dropping the satellite broadcasting Set-Top Box may damage the unit or injure users.



Do not install in a place of extreme temperature. There is a danger of an electric shock or fire.



Wipe off dust or water on the power plug pin. There is a danger of an electric shock or fire.



### Cleaning

Disconnect the power cord in case of lightning or a prolonged period of non use.  
There is a danger of an electric shock or fire.



Disconnect the power cord before cleaning.  
Avoid any water drips or splashes.  
Do not wipe with benzene, paint thinner or alcohol.  
There is a danger of an electric shock or fire.



### Miscellaneous

Do not disassemble, attempt to fix, or modify the Set-Top Box.  
If the Set-Top Box is out of order, contact your local Cable Operator or nearest area Office.  
There is a danger of an electric shock or fire.



Do not use or place inflammable spray or objects near the Cable Set-Top Box. There is a danger of an explosion or fire.



Objects filled with liquids (such as a vase or fish bowl) should not be placed on the apparatus.  
There is a danger of an electric shock or fire.



### Miscellaneous

If there is any abnormal sound, smell or fumes from the satellite Set-Top Box, disconnect the power plug, and contact your local Cable Operator or your area office.  
There is a danger of an electric shock or fire.



Do not step on the Cable Set-Top Box or place heavy object on the Set-Top Box.



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# 1. Before using the Set-Top Box

This chapter describes detailed instructions on the product and its accessories.

## 1.1 Package Contents

Please check all package contents before using your Set-Top Box.



Receiver



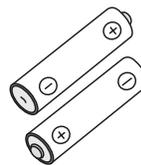
Remote Control Unit



User Manual

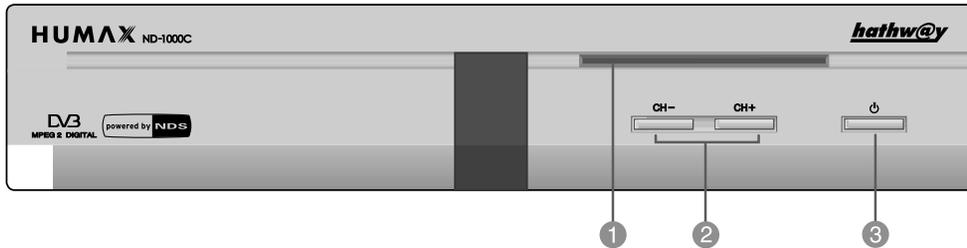


Smart Card



AA size batteries

## 1.2 Front Panel



### 1. SMART CARD SLOT

Slot for a smart card.

The Smart Card is to be placed in the slot with the arrow “This way up” facing upwards (i.e. Chip-side upwards).

**NOTE: THE CARD IS TO BE INSERTED GENTLY TILL IT STOPS AND REMAINS APPROX. 1 CM OUTSIDE.**

### 2. CH-/+

Moves the TV/Radio channel up/down.

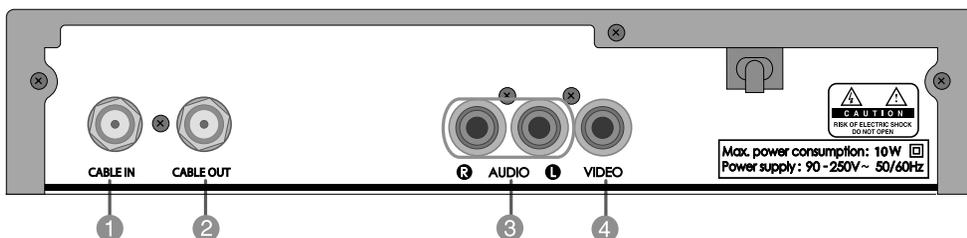
### 3. STANDBY Button

Switches between Operation and Standby modes.

While watching the analog Free-To-Air Channels, the Set-Top Box should be in the STANDBY mode.

**NOTE: IF POWER TO THE STB IS SWITCHED OFF, YOU CANNOT VIEW THE ANALOG FREE-TO-AIR CHANNELS.**

## 1.3 Rear Panel



### 1. CABLE IN

Connect the incoming Cable-TV signal to the CABLE IN jack on the Set-Top Box.

### 2. CABLE OUT

Connect the outgoing cable from CABLE OUT to the TV set.

### 3. AUDIO R/L

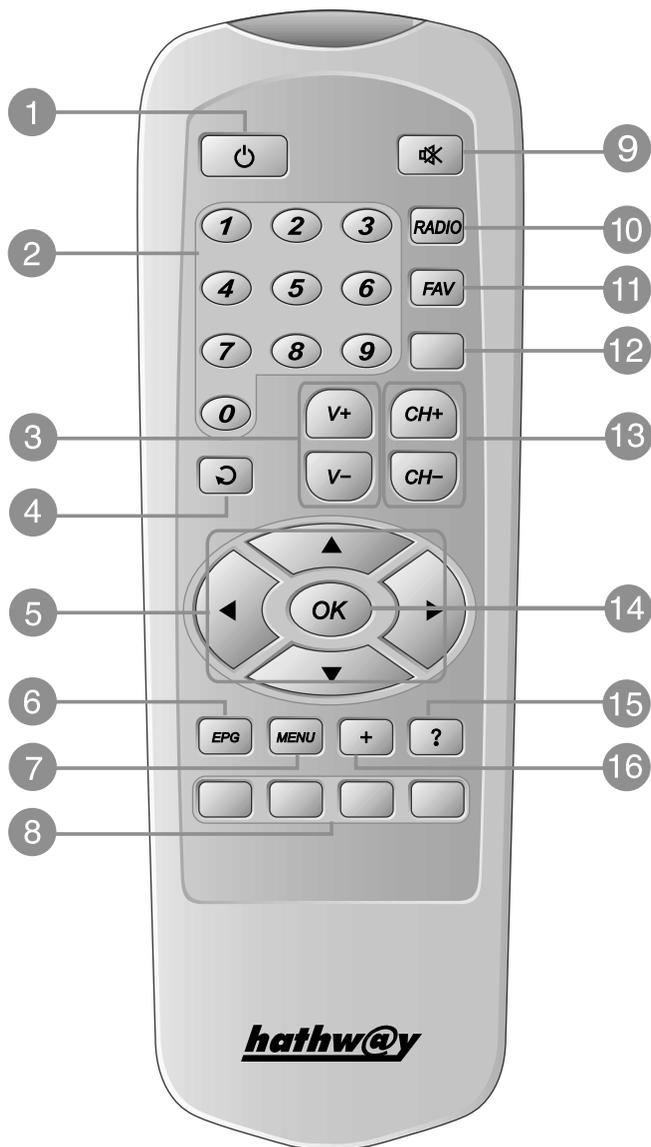
Connect the AUDIO R to the TV AUDIO IN and AUDIO L to the TV AUDIO IN using RCA-RCA cord.

### 4. VIDEO

Connect the VIDEO to your VIDEO IN of TV / VCR using RCA-RCA cord.

# 1. Before using the Set-Top Box

## 1.4 Remote Control



1. **Standby**  
Switches between operation and standby modes
2. **Numerical(0-9) buttons**  
Enters a TV/Radio channel number
3. **V+/V-**  
Adjusts the audio volume.
4.   
Exits whichever EPG screen you are on and goes one screen back.
5. **Arrow buttons**  
Changes the channel or moves the cursor up, down, left, or right.
6. **EPG**  
Displays the Programme Schedule.
7. **Menu**  
Displays the Main Menu.
8. **Red/Green/Yellow/Blue**  
Select the corresponding color option shown on-screen (for use with interactive services).
9. **MUTE**  
Mutes the audio. Press again to resume audio.
10. **Radio**  
Switches between TV and Radio modes.
11. **FAV (Favourite)**  
Press to display the list of the favourite services.
12. **For future use**
13. **CH+/-**  
Changes the channel.
14. **OK**  
Selects a menu or confirms the selected operation. If pressed while watching a TV Programme, displays the main menu.
15. **?**  
Press to display the Help box on the screen. If pressed while watching a programme, displays the programme banner.
16. **+**  
Press this button to view additional information about a TV programme, while in EPG mode. Pressing the button while viewing a Programme allows one to select alternate audio language and subtitling, If available.

**Note:** The Remote Control has a working range of 7 ~ 10mts from the Cable Set-Top Box within an arc of 30 degrees to the left or right.

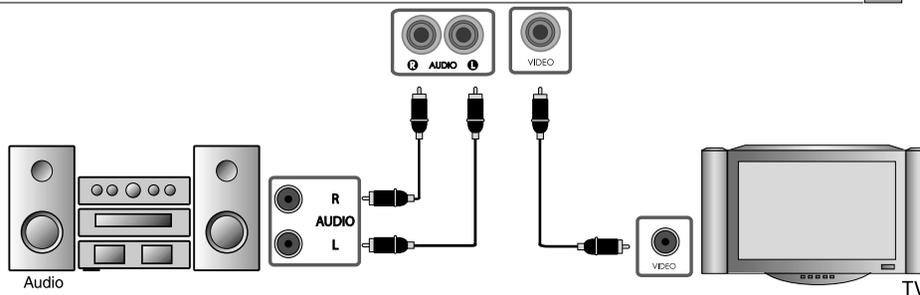
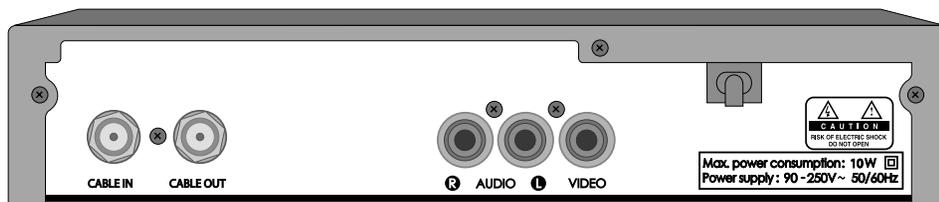
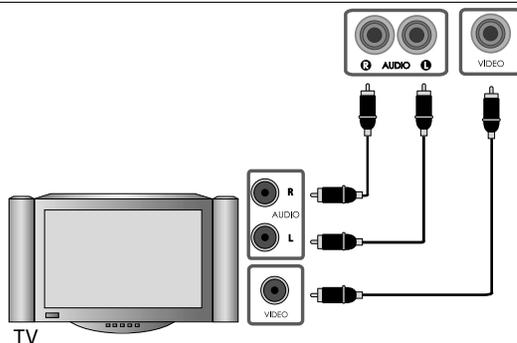
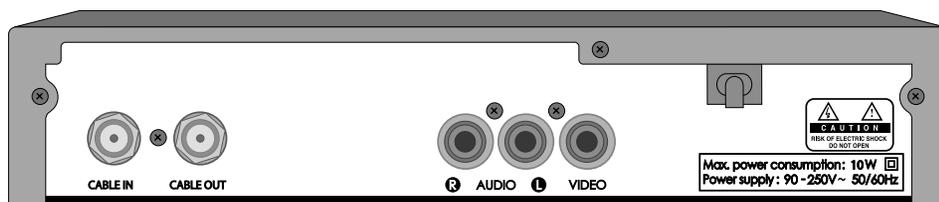
## 2. Setup

This chapter describes how to set up the Set-Top Box. Select the most appropriate procedure depending on your requirements.

**Note:** If you encounter any problem when setting up the Set-Top Box, please contact your local Cable Operator or Area office.

### 2.1 Connecting the Set-Top Box

#### Connecting TV / Hi-Fi system



## INPUT

- Connect your CATV line to the CABLE IN socket on the Set-Top Box for receiving cable services.

## OUTPUT

- RF Output

Connect a cable from the CABLE OUT connector of the Cable Set-Top Box to the RF (Tuner) input of the Television using a F to TV cord.

- Base-band Output

For best picture quality, it is recommended to use the A / V outputs of the Cable Set-Top Box.

- RCA A / V Cable are connected as in the figure above Please note the polarity for Left & Right audio channel is correctly connected.

## 2.2 Powering On

1. Connect the power cord of the Set-Top Box to a wall outlet.
2. Power on by pressing **STANDBY** (  ) button on the Remote Control or the STANDBY button on the front of the Set-Top Box.



## 2.3 Configuration of the Set-Top Box

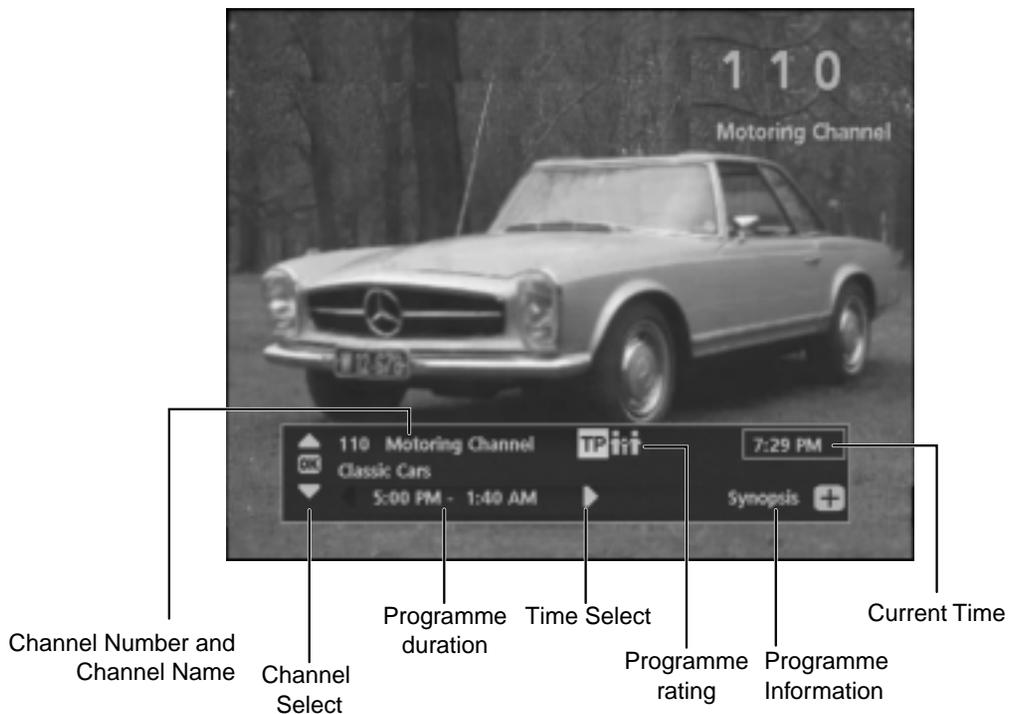
Since the process of configuring the Set-Top Box involves certain Network parameters, you are requested to get the same carried out by your Cable Operator / nearest Area Office personnel.

## 3. Watching a Cable Channel

### 3.1 Turning the TV on for the first time after configuring Set-Top Box

The following figure illustrates the screen that appears when you turned on the TV for the first time. When you switch on and change the channel for the first time, the Programme banner caption appears briefly and disappears as shown below. (You can configure the duration of the banner vide option 'Banner Duration' under 'Personal Settings')

- Right top of the screen: 3 digit Channel number and Channel name are displayed.
- Bottom of the screen: Channel number, Channel name, Programme duration and various current programme are displayed.



### 3.2 To Select a Channel

Subscribers can select and watch their desired channel by performing any one of the following procedures.

1. Press the **CH+/-** (  /  ) button to select your desired channel.
2. If you know the 3 digit channel number of the desired channel, input channel number directly by using the **Numerical** (0~9) buttons to view the channel.
3. Press the **EPG** (  ) button on Remote Control to enter Programme Schedule screen, use the **▲/▼/◀/▶** button and **OK** (  ) buttons to select your desired channel.

4. You can go to Main Menu and select the Programme(  )icon and select “Programme Type” and select by genre. For more information refer to Using the EPG section.
5. You can go to Main Menu and select the Channel(  )icon and using the ▲/▼/◀/▶ button, select the desired channel.
6. While viewing the “Program Banner”, you can scroll through the names of the available channels and select the desired channel.
7. By using the **FAV**(  )button on the Remote Control and using **CH+/-** (  )button thereafter.

### 3.3 To Adjust the Volume

You can adjust the volume using the **V+V-** buttons on the Remote Control. The volume level is displayed as a vertical bar on the left hand side of the TV Screen.

**NOTE:** YOU MAY ADJUST THE STB VOLUME SO THAT WHILE CHANGING BETWEEN DIGITAL CHANNELS AND THE ANALOG FTA CHANNELS, THE CHANGE IN VOLUME ON THE TV IS MINIMUM.



### 3.4 To Mute Sound

The Mute function is convenient to use when telephone or the doorbell rings. Press the **Mute**(  )button to mute sound. Press the button once again to disable the mute function.

# 4. Using the EPG (Electronic Programme Guide)

## 4.1 EPG (Electronic Programme Guide) Screen Overview

This section describes the various components and screens of the EPG.

### 1. Programme Schedule screen

Pressing the **EPG** (  ) button displays the following Programme Schedule grid. In this screen, you can view the Programme details of each channel. You can select the desired Programme or event by selecting the programme and pressing the **OK** (  ) buttons on the Remote Control.



## 2. Main Menu screen

Pressing the **MENU** (MENU) button while watching TV displays the following Main Menu screen. (The TV programme is displayed in the window in 1/4 size.)



This is the Main page which lets you access all the features of the Set-Top Box through the 6 icons at the top. Each icon has a sub-menu.

## 4. Using the EPG (Electronic Programme Guide)

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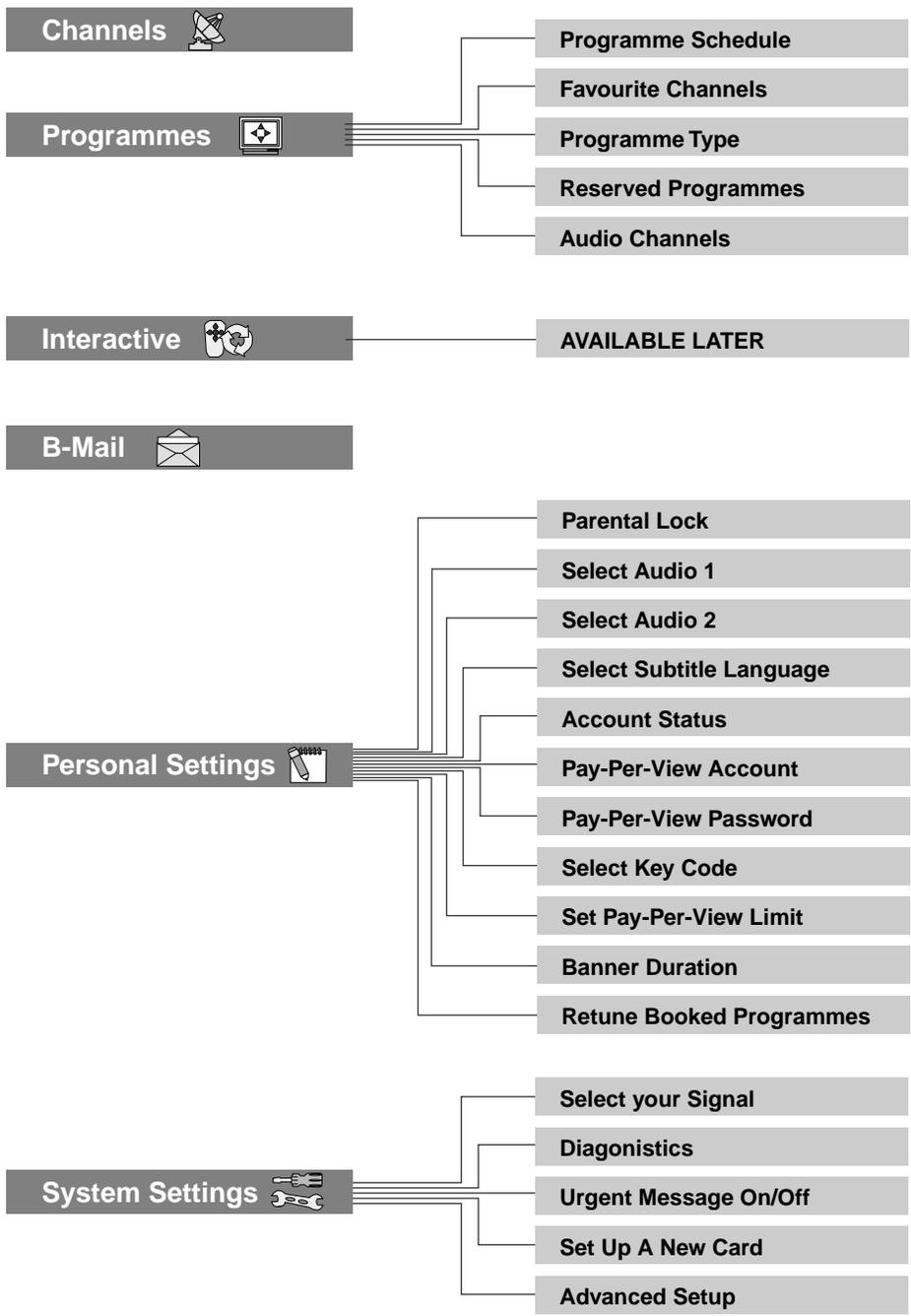
The function of each icon on the EPG menu are as follows.

1.  Channels
2.  Programmes
3.  Interactive
4.  B-Mail
5.  Personal Settings
6.  System Settings

**Note:** If a menu is selected, the icon changes to a golden color.  
In the above, the 'Personal Settings' icon is the one selected.

1. Press the ◀/▶ button to select an icon on the top of the screen.
2. The submenu of each selected icon is displayed on the left of the screen.  
Press the ▲/▼ button to select this submenu. See detailed map on next page.
3. Press the **OK** (OK) button after selecting the menu that you want.
4. If you want to cancel the selected menu and select another, press the **Back** (⏪) button.
5. Press the **Help** (?) button to view brief help information about each function.
6. Press the **+** (+) button to see the Programme information of the current programme on the small TV screen.

### 3. Menu Map



# 4. Using EPG (Electronic Programme Guide)

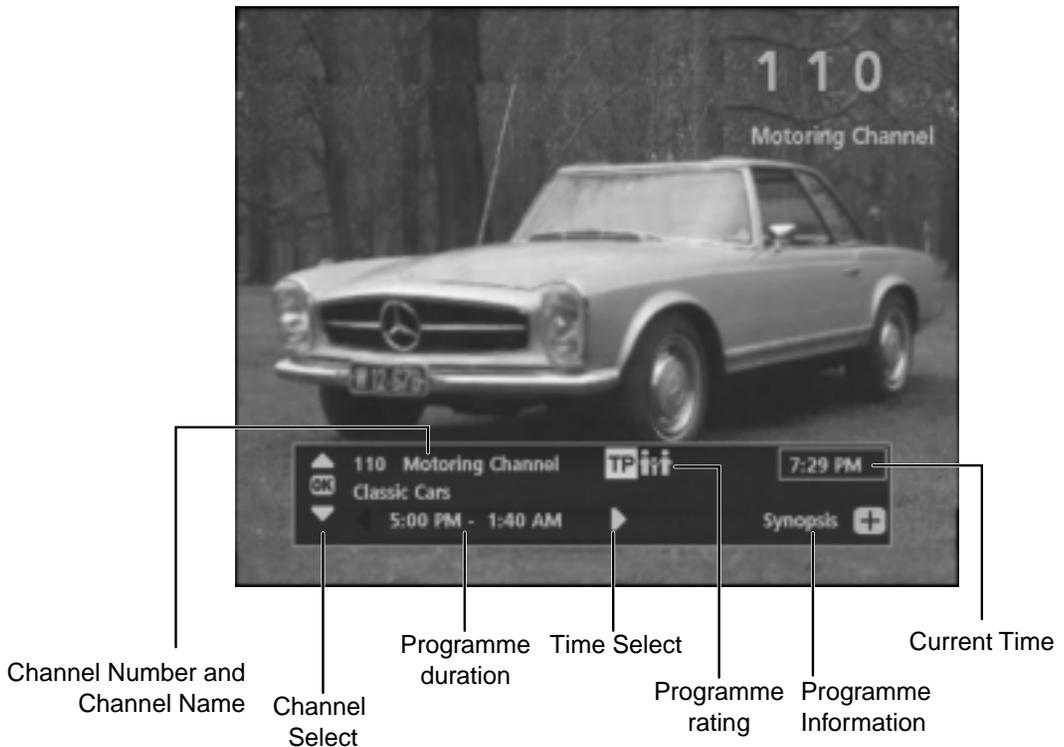
## 4. Program Banner

Whenever the TV is switched on or the channel changed, a banner automatically indicating the current Programme title and time.

To view additional Programme information in this status, press the + ( + ) button.

You can search for Programmes on other channels or at different times in the grid using the ▲/▼/◀/▶ buttons.

Program Banner disappears automatically in a few seconds. To display Program Banner again while watching TV, press the ? ( ? ) button.



### Note:

- Programme Banner information appears for a while every time the channel is changed. You can configure the display time of the caption in 'Banner Duration' by accessing the Personal Settings icon.

**Caution:** The EPG screen of the User Manual may be different from the actual one.

# 5. Functions Guide

## OVERVIEW OF FREQUENTLY USED FUNCTIONS

In this section, you can learn about how to use several frequently-used functions of EPG.

- **Programme Schedule**
- **Favourite Channel**
- **Programme Category Search**
- **Parental Control**

### 5.1 Using the Programme Schedule

#### 1. Accessing the Programme Schedule

You can select the Programme Schedule in two ways.

- Either press the **EPG** (  ) button on the Remote Control.
- Alternatively, press the **MENU** (  ) button to enter the Main Menu screen. Press the  button and select the Programme (  ) icon on the top of the Main Menu screen. Using the  button move to Programme Schedule from the options displayed. Press the **OK** (  ) button, then the Programme Schedule will be displayed.

#### 2. Searching for programme of interest

In the programme guide, you can search Programmes by channel and time with the  /  buttons of the Remote Control, and search Programme information for days other than current day.

When a Programme is selected, press the **+** (  ) button to view additional information about the selected Programme.

## 5. Functions Guide

### 3. Viewing the programme of interest

Select ▲/▼/◀/▶ buttons on the Remote Control, and press the **OK**() button. If your desired Programme is a Programme to be broadcast later, the Programme reservation screen appears.

### 4. Reserve / Cancel Programme

- To reserve a Programme, select your desired Programme using the ▲/▼/◀/▶ buttons, and the **OK**() button.
- The Programme reservation screen as well as Programme information will be displayed.



Press the **OK**() button to reserve a Programme. (If your desired Programme is on air, you watch the Programme by pressing the **OK**() button.)

The ✓ shows that the program has been reserved.

- To cancel a reservation, go to the Programme() in the Main Menu, move to "Reserved Programmes" and press the **OK**() button. Then the "Reserved Programme" list will be displayed. Select the Programme to cancel its reservation from the list, and press the **OK**() button to cancel the reservation. The ✓ mark disappears showing that the reservation has been cancelled.

## 5. Quick Search

Press the Fast. Fwd / Rewind button in the Programme Schedule screen to display the banner with Day and Time options. This option allows the user to skip to the Programme list of some other day or time without having to scroll sequentially e.g to jump from Monday to Thursday without having to scroll through Tuesday's & Wednesday's programmes. You can move to your disired scheduled day using the ▲/▼ button and disired time using the ◀/▶ button.

## 5. Functions Guide

### 5.2 Using Favourite Channel

The Favourite channel function enables subscribers to select and watch Favourite channels easily by using a single button on the Remote Control, once programmed.

Favourite channel configuration procedures are described below.

1. Select the Programmes (📺) icon from the icons on top of the Main Menu screen by using the ◀/▶ button from the Main Menu. Then select 'Favourite channels' from the detailed items displayed on the screen by using the ▲/▼ button.



2. Select an number \*none\* from 900 \*none\* to 919 \*none\* in the MY FAVOURITES list in the Favourite Channel configuration screen by using the ▲/▼ button. Move to the CHOICES list by using the ◀/▶ button.
3. Select your desired channel beside the \*none\* item using **CH+/-** (⏪/⏩) button within CHOICES and press the **OK** (OK) button. Then the channel is specified as a Favourite channel and is moved to the Favourite channel list.



4. When you have configured a Favourite Channel, you can watch the channel by pressing the **FAV** (  ) button on the Remote Control or by entering the number channel number 900 - 919 on the Remote Control.
  5. The favourite channels will also appear in the EPG grid, once programmed.
  6. While in the favourite channel mode, pressing **CH+/-** (  /  ) button will allow the user to scroll within the programmed favourite channels.
- Note:** To delete a channel from the Favourite channel list, move the (Empty) item that is at the side of the channel to delete from the channel list using the  button. Press the **OK** (  ) button. Then the Favourite channel is deleted.

## 5. Functions Guide

### 5.3 Searching by Programme types

This function enables subscribers to easily find the channel that displays the desired type of current Programme by the programme type e.g Movies, Education etc..

1. While turning on the TV, press the **MENU** (  ) button to enter the Main Menu
2. Select the Programmes (  ) icon from the icons on the top of the Main Menu. Select 'Programme Type' from the options displayed on the screen.



3. Move to your desired item from the Programme types displayed using the  $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$  buttons and press the **OK** (  ) button. Then all Programmes of that particular type that are scheduled for the day are displayed with the channel number and time.



4. Select your desired Programme and press the **OK**(⊗)button.

The Set-Top Box automatically tunes your TV to the selected programme.

**Note:** The following types of Programme categories are available.

1. Movie
2. News / Current Affairs
3. Shows / Game Shows
4. Sports
5. Children's
6. Music / Ballet / Dance
7. Arts / Culture
8. Social / Politics / Economics
9. Education / Science
10. Leisure / Hobbies
11. Special Characteristics

## 5. Functions Guide

### 5.4 Using Parental Lock Function

This function enables subscribers to limit watching content for the protection of children and teenagers based on the broadcasting grade of Programme.

**Note:** This function does not limit the event, but specific channels such as Movies, that carries a Programme rating in the original broadcast.

To run the parental lock function, complete the following procedures.

1. While turning on the TV, press the **MENU** (  ) button to enter Main Menu.
2. Select 'Parental Lock' from the "Personal Settings" (  ) icons on the top of the Main Menu. Then the following screen will appear.



Press OK and the following screen will appear.



3. Input PIN code and then specify desired rating from the options displayed using the ▲/▼ button, and press **OK**(Ⓞ)button.

**Note:**

- Default PIN code is '0000'.  
You can configure the PIN code by using the 'Select Key Code' function in the 'Personal Settings' menu.
- Programmes of other ratings are not blocked.

**Caution:**

- Once the Parental Lock function is configured, all the Channels higher than the specified grade will be blocked by an interruption screen while watching TV.  
If you enter the PIN code at this time, then the interruption screen disappears, and you can watch the Channel.

# 5. Functions Guide

## 5.5 Other function of EPG

Until now, this manual described frequently used functions in the EPG. Now this section describes other functions provided by the EPG.

**Note:**

This is the Main page which lets you access all the features of the Set-Top Box through the 6 icons at the top. Each icon has a sub-menu.

The function of each icon on the EPG menu are as follows.

1.  Channels
2.  Programmes
3.  Interactive
4.  B-Mail
5.  Personal Settings
6.  System Settings

**Note:** If a menu is selected, the icon changes to a golden color.  
In the above, the 'Personal Settings' icon is the one selected.

1. Press the ◀▶ button to select an icon on the top of the screen.
2. The submenu of each selected icon is displayed on the left of the screen.  
Press the ▲/▼ button to select this submenu. See detailed map on next page.
3. Press the **OK** (OK) button after selecting the menu that you want.
4. If you want to cancel the selected menu and select another, press the **Back** (⏪) button.
5. Press the **Help** (?) button to view brief help information about each function.
6. Press the **+** (+) button to see the Programme information of the current programme on the small TV screen.



# 5. Functions Guide

## 1. Channels

Select the channels icon to display the complete channel list.

Select the desired channel by using the ▲/▼ buttons and press **OK** () button.

Then the current Programme of the selected channel is displayed in the small screen.

Press the **+** () button to view the Programme information.

To view selected channel in full screen, press **OK** () button once again.

**Note:** Programme information or Synopsis will be displayed only if it is sent by each broadcaster



## 2. Programmes

The Programme menu has 5 sub-menus as displayed on the screen below:



- **Programme Schedule**

In this screen you can view the Programme schedule grid for future. For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

- **Favourite channels**

This function allows you to configure desired Favourite channels. For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

- **Programme Type**

This function enables subscribers to easily find the channel that displays the desired type of current Programme by the programme type e.g Movies, Education etc.

For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

## 5. Functions Guide

- **Reserved Programmes**

You can reserve a program that is to be broadcast in future using this function. At that particular day and time, the TV set if ON, will automatically switch to the selected programme.

For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

- **Radio channels**

If you select a Radio channel, the list of available Radio channels is displayed. Select your desired channel from the list to listen to quality audio.

### 3. Interactive

This feature is currently not available.

#### 4. B-Mail

This function receives various messages sent by your broadcaster. You can view broadcaster's official announcements.

When you receive a B-mail, the Envelope()icon will appear on the screen that you are watching as shown below.



Press the **MENU**()button to go to Main Menu.

Using the **◀/▶** buttons, select the  icon.

Press the **OK**()button.

The message will be displayed on the screen.

Up-to 8 B-mail messages can be stored in the Set-Top Box and when the 9th message is received, it overwrites the first message.

If no messages have been received, when you access the B-mail icon, the screen will display "NO MESSAGES"

# 5. Functions Guide

## 5. Personal Settings



This function enables the subscriber to configure various EPG functions to one's personal requirement. This menu has following sub-menus:

- **Parental Lock**

This menu allows the subscriber to limit watching of broadcast material classified to protect children and teenagers.

For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

- **Select Audio 1**

- **Select Audio 2**

These 2 options allow the subscriber to select the audio language of their choice, if the source programme is available in more than 1 language.

- **Select Subtitle Language**

You can configure the subtitle language to be displayed on the screen if the source programme is supporting subtitling. Default configuration is English.

- **Account Status**

This function will be provided later.

- **Pay-Per-View Account**

This function will be provided later.

- **Pay-Per-View Password**

This function will be provided later.

- **Select Key Code**

This function allows configuration of the PIN code used in the overall EPG.

The default code is 0000

To configure a new PIN code, you have to input the existing PIN code

Thereafter you will be prompted to enter the new 4 digit numerical pin code

Confirm the new pin code by entering it once again.

The new pin code will now be operational.

**Note:** In case you forget your pin code, kindly contact your Cable Operator or closest Area Office.

- **Set Pay-Per-View Limit**

This function will be provided later.

- **Banner Duration**

This option allows the subscriber to configure the time period for which the channel banner appears whenever selecting a channel.

If you do not want to see the information, set the value to 0 second.

- **Retune Booked Programme**

This option allows automatic switching to reserved Programme when the Programme is broadcast.

If the 'Yes' option is selected and the Set-Top Box is in operation, it will automatically tune to the reserved programme whenever the programme starts.

If the 'No' option is selected, the Set-Top Box will not tune to the reserved programme and will continue to display current programme.

## 5. Functions Guide

### 6. System Settings

**Caution:** This function is for installation personnel only.  
Please do not use this function, if you are not familiar with the procedures for configuration of Set-Top Box environment.

The selected screen consists of the following 5 menus.



Each menu provides the following function.

#### • Select Your Signal

To check the signal reception status, complete the following procedures.

1. Press the **OK** (  ) button in the System Settings menu
2. The PIN code input window appears.  
Input the configured PIN code and then press **OK** (  ) button.
3. The Channel select screen appears.  
Select the appropriate Channel, and press the **OK** (  ) button.  
Displays current signal status of the selected Channel by displaying signal strength, signal quality and BER (Bit Error Rate). If the Set-Top Box is not properly installed or there is a problem, the values displayed are very low.

## • Diagnostics

Set-Top Box hardware/software information display.

To view information on the operational environment of the Set-Top Box, complete the following procedures.

1. Select 'Diagnostics' in 'System Settings' screen and then press the **OK**() button.
2. A new window appears displaying all information on current status including Set-Top Box hardware, and software release notes, version, tuning status, etc.

## • Urgent Message Display

This function allows the subscribers to determine whether to display urgent messages on the screen immediately or not. You can enable or disable this function as follows:

1. Press "Urgent Message Display" in the "Systems Settings" menu.  
Press the **OK**() button.
2. A new window appears allowing you to select 'On' or 'Off'.  
If 'Enable' is selected, the emergency message is displayed on the screen immediately on arrival.  
If 'Disable' is selected, the message icon is not displayed on the screen.

**Note:** In such a case, the user would not know if a new message has arrived.  
To check for messages, the user has to access the B-mail icon.

## • Set Up A New Card

This function enables copying the viewing information of the existing card to a new one when you are replacing Set-Top Box card with a new card.

1. Select 'Set Up A New Card' option in the 'Systems Setting' menu and then press the **OK**() button.
2. A screen appears asking you to confirm new card installation once again.  
Select 'Yes' to proceed to the next step, or select 'No' to return to System Settings menu screen.
3. Follow the instructions on the screen.

## 5. Functions Guide

### • Advanced Set-up

#### TV Setup

This function allows configuration of the picture ratio for the subscribers TV between 4:3 and 16:9.

1. Move to 'Advanced Setup' in the 'System Settings' screen and press the **OK**() button.
2. The PIN code input window appears. Input the configured PIN code and then press the **OK**() button.
3. Select 'TV Setup' in the 'Advanced Setup' screen and then press the **OK**() button.
4. Configure the TV picture ratio appropriate to the user's TV either 4:3 or 16:9 by using the  $\blacktriangle/\blacktriangledown$  button and then press the **OK**() button.

#### UHF Output Channel

This function allows selection of the RF output channel of the Set-Top Box. The default setting is CH E36 (591.25 MHz)

1. Move to 'Advanced Setup' in the 'System Settings' screen and press the **OK**() button.
2. The PIN code input window appears. Input the configured PIN code and then press the **OK**() button.
3. Select 'UHF Output Channel' in the 'Advanced Setup' screen and then press the **OK**() button.
4. Select the disired UHF Channel from the list displayed and press **OK**() button.
5. The Set-Top Box will now provide its RF output on the chosen UHF Channel.

# Precautions

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# Specifications

## HARDWARE SPECIFICATIONS

### Power Supply

Input Voltage	AC 90~270, 50/ 60Hz
Type	Switching Mode Power Supply(SMPS)
Power Consumption	Max. 15 W      Stand-by: Max. 5 W

### Demodulator

Symbol Rate	1.5 - 7 Ms/s
Constellation	8, 16, 32, 64, 128, 256QAM

### Tuner

1 Input Connector	F-Type Female
1 RF Output Connector (loop through out)	F-Type Female
Frequency Range	47 MHz to 862 MHz
Input Signal Level	47 to 75 dBuV

### Video Decoder

Transport stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG-2 Main Profile @ Main Level
Input Rate	Max. 15 Mbit/s
Video Formats	4:3, 16:9 Letter box(Default)

### Audio Decoder

Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single / Dual mono / Stereo / Joint stereo

### RF-Modulator

RF/Loop-through Output Connector	F -Type Female
Output level	72 dBuV
Frequency	470 MHz to 862 MHz
Output Channel	UHF, CH 21-CH 69
TV standard	PAL G
Preset Channel	Software changeable by Menu (Default is CH 36)

### Conditional Access Interface

Smart Card Reader	1 Slot, ISO7816 Compatible
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### Memory

Flash Memory	2 Mbyte
Graphics (MPEG) & System Memory	8 Mbyte
EEPROM	16 Kbytes

### Front panel

Slot	1 Smart Card
Buttons	3 Buttons (Stand-by On/Off, Channel up, Channel down)
Indicators	1 LED (2 Colors) : Power On / Standby

### Rear panel

Main Power Cable	Fixed type on the body
Cable In	1 Input, with loop-through
RCA	1 Video Output / 2 Audio Output (Left, Right)
Cable Out	1 within Tuner internally

### Physical Specification

Size (W x H x D)	215 x 41 x 158 mm
Weight(Net)	1.3 kg
Operating Temperature	0 °C to +45°C
Storage Temperature	-10 °C to +70°C
Accessories	Remote Control, User Manual, 2 Batteries(AA)
Remote Control Unit	33 keys - Numerical button(0..9) - EPG, Mute, TV/Radio, Back, OK - Stand-by, Menu, Synopsis, Help, FAV - Up, down, left, right, CH+, CH-, V+, V- - Red/Opt+, Green/soundtrack, - Yellow/subtitle, Blue/Freeze,

## SOFTWARE SPECIFICATIONS

### Main Features

Condition Access System	NDS
Middleware	NDS core
Basic System	MPEG-II Digital & Fully DVB Compliant.
EPG	NDS
Subtitle	Supports EBU and DVB subtitle
Audio Language	Auto language selection of program with user setting in menu

### On Screen Display

OSD Languages	English
Information Banner	Yes
Parental Control	Yes
Software Upgradeable	Yes
Finger printing	Yes

**NB:** The above specifications are subject to change without prior notice.

