# Hardware Description

## 1. Front Panel Configuration

**Coolsat ®**          **7100 miCro-PVR**

COOLSAT
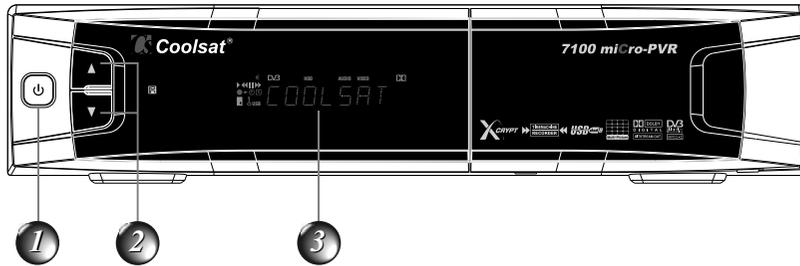
**1  POWER Button**

Press to switch between **STANDBY** and **POWER ON** modes.

**2  CH Up/Down Button**

Press to change channels in normal mode, to move the highlighted-bar UP/DOWN in menu mode.

**3  VFD(Vacuum Fluorescent Display)**

The VFD consist of 8-digit letter and various icons. These letters and icons display the status of receiver as follows.
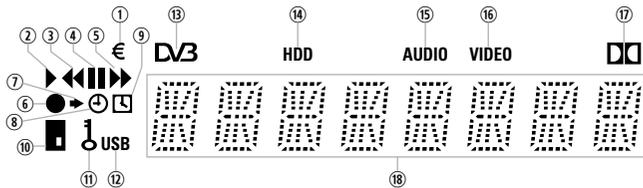
① € : Indicates that current service is pay channel.
② ▶ : Turned on during playback.
③ ◀◀ : Turned on during rewind in playback mode.
④ ❙❙ : Indicates that current service is paused.
⑤ ▶▶ : Turned on during fast forward in playback mode.
⑥ ● : Turned on during recording.
⑦ ➔ : Turned on when you press a button in remote controller.
⑧ ⏱ : Indicate that sleep timer is set up.

⑨ ⏱ : The time that is set with timer manager is come, this icon is turned on.
⑩ ▮ : Indicates that smart card is inserted.
⑪ ⌀ : Indicates that current channel is locked.
⑫ **USB** : Indicates that external USB device is connected.
⑬ **DVB** : Turned on during live mode.
⑭ **HDD** : Indicates that set-top box is accessing files in the external USB device.
⑮ **AUDIO** : Indicates that current service is radio service.
⑯ **VIDEO** : Indicates that current service is TV service.
⑰ **DD** : Indicates that current service supports Dolby digital audio.
⑱ ▦ : Display service name, time and other information with letter.

## 2. Rear Panel Configuration

Digital Satellite Receiver
Model No. : **Coolsat 7100 miCro-PVR**
Rating : AC100~250V~ , 50/60Hz , 25W
CSA File No. : **237769**
Serial No. & Manufactured :
See the Labels on the Bottom Side.
**SUPPLIED BY SENSEWARE**
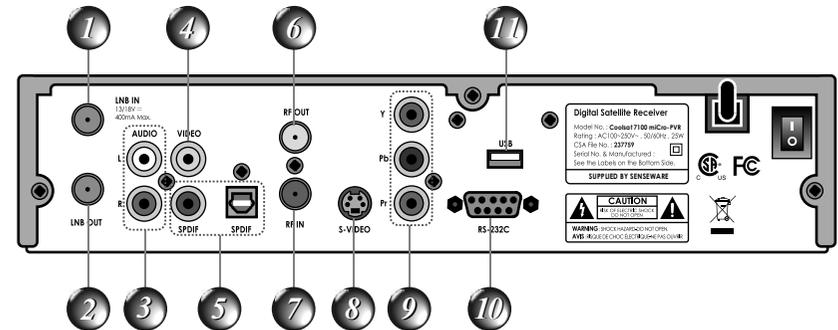
**1  LNB IN** : Use to connect a satellite antenna.

**2  LNB OUT** : Use it when connecting to another STB for loop-through.

**3  AUDIO L/R** : Use to connect audio left, right of TV or VCR.

**4  VIDEO** : Use to connect to video input of TV or VCR.

**5  SPDIF** : Use to connect SPDIF to digital audio equipment.(Coaxial or Optic)

**6  RF OUT** : Use to connect to RF(ANT) input jack of TV.

**7  RF IN** : Use to connect a general Aerial Antenna.

**8  S-VIDEO** : Use to connect to S-VHS video input on your TV or VCR.

**9  Y/Pb/Pr** : Use it when connecting component video to TV.

**10  RS-232C** : Use it when connecting to your PC.

**11  USB** : Use to connect to external USB device

## 3. Remote Control Unit



POWER ①
STOP ③
REWIND ⑤
PLAY/TIME SHIFT ⑥
PREV FILE ⑧
ARROW ⑪
EPG ⑬
MUTE ⑭
MENU ⑯
EXIT ⑲
PLAY LIST ⑳
NUMERIC Keys ㉒
TV/RADIO ㉓
C.C ㉕

② RECORD
④ PAUSE
⑦ FAST FORWARD
⑨ NEXT FILE
⑩ COLOR Keys
⑫ OK
⑪ ARROW
⑮ INFO
⑰ RECALL
⑱ SAT
㉑ FAV
㉔ TV/SAT
㉖ AUDIO

① **POWER** : Turns the STB On/Off.

② **RECORD** : To start recording.

③ **STOP** : To stop time shifting, play back or recording

④ **PAUSE** : This key is used to pause the video. Press once more to resume the video.

⑤ **REWIND** : Rewind when the progress bar is displayed. Start reverse playback. Change the speed of reverse playback.

⑥ **PLAY/TIME SHIFT** : Display the progress bar of time shifting or playback when no progress bar is displayed. Start playback with normal speed. Return to normal speed from trick mode.

⑦ **FAST FORWARD** : Start fast forward or fast motion playback. Change the speed of forward playback.

⑧ **PREV FILE** : To play the previous MP3 file in MP3 play mode.

⑨ **NEXT FILE** : To play the next MP3 file in MP3 play mode.

⑩ **COLOR Keys** : Used for special function in menu. **RED** key is used to add or delete the current position as a bookmark. **GREEN** key is used to go to the next bookmark position. **BLUE** key is used to display multiple pictures.

⑪ **ARROW** : Moves the highlight bar for selecting options on the menus. And this key is used to change channels(UP/DOWN) or change audio volume(LEFT/RIGHT).

⑫ **OK** : Shows the channel list in non-menu mode and select an item or confirm in menu mode.

⑬ **EPG(Electronic Program Guide)** : Show the TV/Radio program guide.

⑭ **MUTE** : Turns the sound On/Off.

⑮ **INFO** : Shows the information of the current program. If you press one more, detail information box will be shown.

⑯ **MENU** : To enter the main menu or to move to the previous menu.

⑰ **RECALL** : Moves to previous channel.

⑱ **SAT** : To change the satellite groups.

⑲ **EXIT** : Exit from the menu or pop-up window.

⑳ **PLAY LIST** : To display recorded channel list.

㉑ **FAV** : To change the favorite groups.

㉒ **NUMERIC Keys** : Controls the numerical operation and channel numbers directly.

㉓ **TV/RADIO** : Switches between TV and Radio.

㉔ **TV/SAT** : Toggles the TV output source between the satellite input and UHF/VHF antenna input.

㉕ **C.C** : Turns the closed captions On/Off.

㉖ **AUDIO** : To select audio language.

**NOTE** *When inserting batteries, make sure that the polarity (+/-) is correct.*

## Connections Diagram

### 1. Receiver to TV with RF

① Connect the satellite antenna cable to LNB IN.

② Connect the TV antenna to RF IN.

③ Connect the RF OUT to RF IN of TV.

④ Connect the VIDEO and AUDIO L, R to VIDEO IN and AUDIO L, R IN of TV.

⑤ Connect the S-VIDEO to S-VIDEO IN of TV (If necessary).

⑥ Connect the Y, Pb, Pr to Component input(Y, Pb, Pr) of TV (If necessary).



TV

| AUDIO R | AUDIO L | VIDEO | RF IN | S-VIDEO | Y | Pb | Pr |

SATELLITE DISH    TV ANTENNA
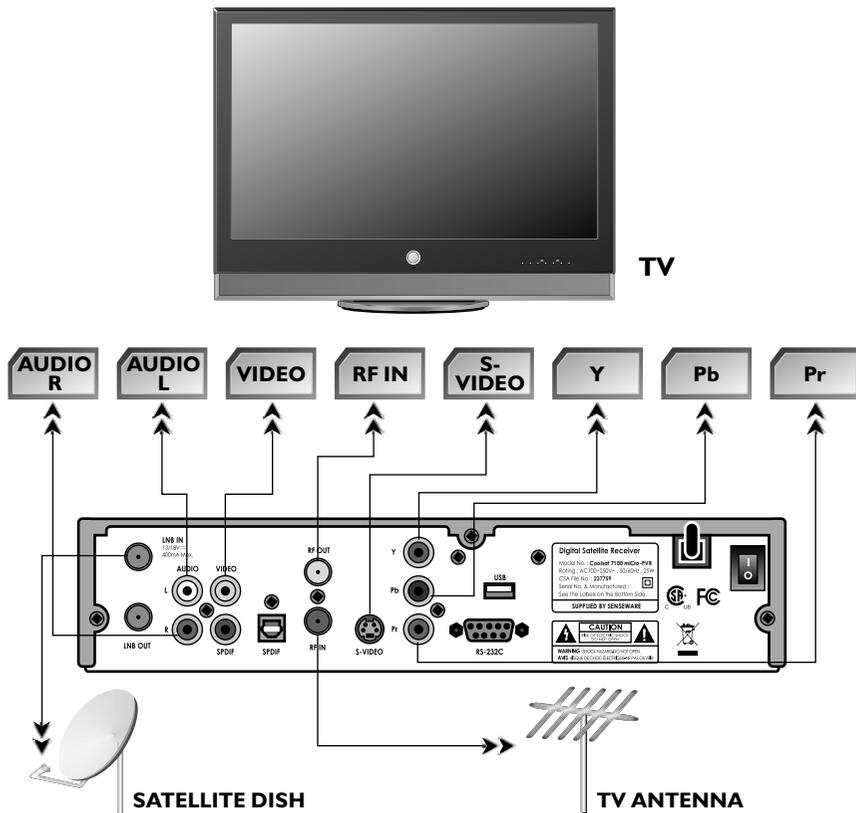
### 2. Receiver to TV and VCR

① Connect the satellite antenna cable to LNB IN.

② Connect the TV antenna to RF IN.

③ Connect the RF OUT to RF IN of VCR.

④ Connect RF OUT of VCR to RF IN of TV.

⑤ Connect other jacks to the appropriate jacks of TV refer to above section, *1. Connect to TV*.



TV

VCR

| RF IN | RF OUT | | RF IN |

SATELLITE DISH    TV ANTENNA
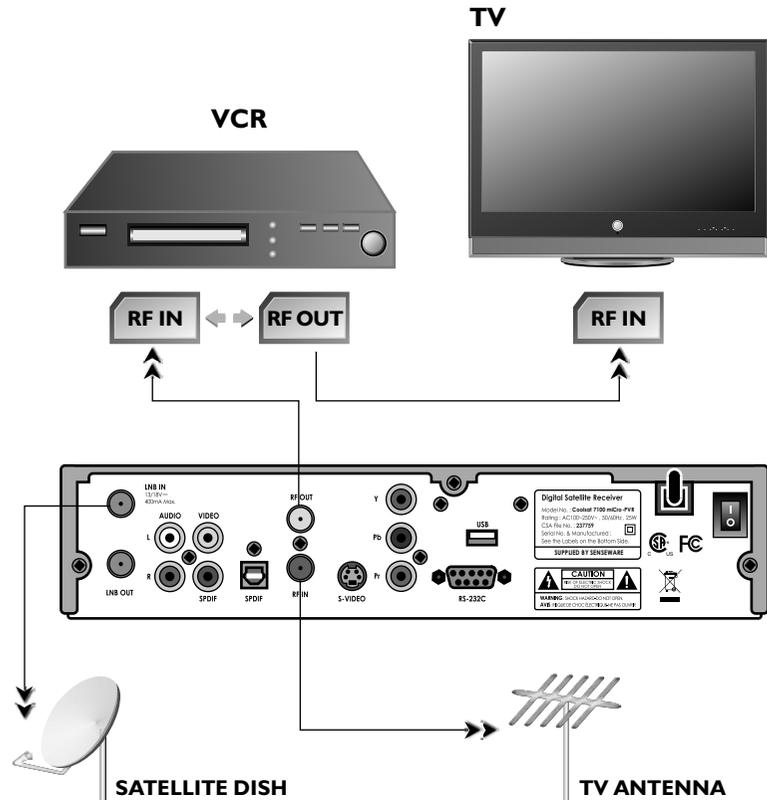
## 3. Receiver to Digital Audio Equipment

① To get better quality audio, you can use digital audio via coaxial or optic cable.
If you have a digital audio equipment, connect SPDIF to Digital audio input of the
equipment.(Coaxial or Optic)

② Connect other jacks to the appropriate jacks of TV or VCR refers to above section,
*1. Connect to TV* and *2. Connect to TV and VCR.*



**SPDIF
(Coaxial)**    **SPDIF
(Optic)**

**Digital Audio Equipment**
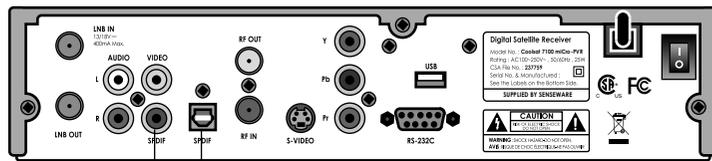
## 4. Connecting to Dish

① Using Single DISH : Connect the Satellite Antenna cable to LNB IN.



**DISH**
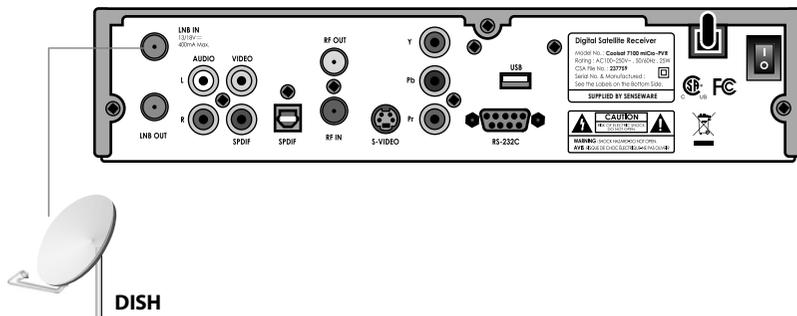
② Using DiSEqC switch : Connect the cable of DiSEqC switch to LNB IN.



**DISH**

**DiSEqC switch**

**DISH**

**DISH**

**DISH**
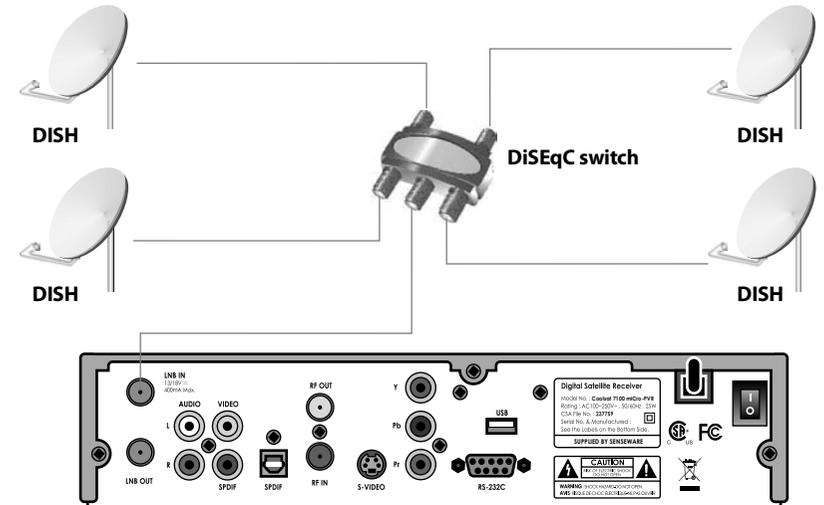
③ Using DiSEqC motor : Connect the cable of DiSEqC motor to LNB IN.



**SATELLITE DISH
With DiSEqC motor**

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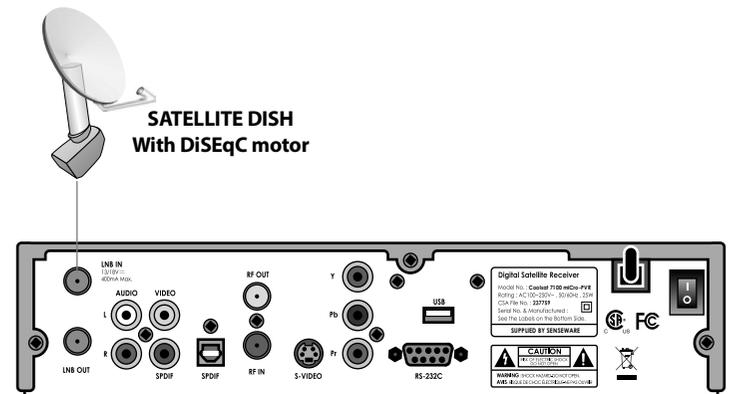
## Guide of Functions

### 1. Select Channel

To select the desired channel, you can use below methods.

**1.1 Using UP/DOWN buttons**

You can navigate between channels using **UP/DOWN** buttons. Whenever you press the **UP (DOWN)** button, current channel will be changed to next(previous) channel.
You have to press **UP** or **DOWN** button until find the channel you want.

**1.2 Using NUMERIC buttons**

If you know the channel number, enter the number directly using **NUMERIC** buttons.

**1.3 Using Channel List**

To select the desired channel in the channel list, you should firstly display the channel list using **OK** button.
Use **ARROW** buttons to select a desired channel and press **OK** button.

In the Channel List window, you can also use additional functions with **COLOR** buttons.

Press **RED** button, you can sort the channels by Alphabet, Transponder, Group and CAS.
Press **GREEN** button, you can add the channel to one of 10 favorites.

### 2. Information Window

If, you want to view the current channel information window press **INFO** button. Then the Information window will appear.
This Information window is automatically displayed when changing channels. This window contains many items such as channel number, channel name, scrambled channel, Teletext, subtitle, Dolby Digital symbol, duration time and so on.
Press **INFO** button once more, you can get more detailed information.

### 3. Multi-Picture Display

Press the **BLUE** button to display multiple pictures and **RED** button display 9 or 12 multiple pictures option.

### 4. Electronic Program Guide(EPG)

Electronic Program Guide (EPG) helps you navigate through all the possible viewing options.
The EPG supplies information such as program listings, start/end times and detailed information about the program listings for all available channels. The availability and amount of these program details will vary, depending on the particular broadcaster.

① If you press **EPG** button, EPG menu will be displayed.
② Press the **ARROW** buttons to move to other channel or to see previous/next guide.
③ Press **EPG** button once to view full EPG (Entertainment Program Guide) and press button twice to view only selected EPG. Press button consecutively to go back and forth.
④ Press **GREEN** button to view next day EPG and **RED** button to view EPG for previous day.
⑤ Select the program by using the **ARROW** buttons then set the timer by pressing **OK**.
⑥ You can make a reservation for recording on EPG menu.
　- Press **RECORD** button to reserve the event. This reservation can be checked under the Timer Manager Menu.
　- To cancel the reservation for recording by **RECORD** button at the appointed event.

### 5. Satellite List

Select the **SAT** (satellite) button to view all satellite listings. Scroll through the various satellites using the **ARROW** buttons, and select the appropriate satellite by pressing **OK**.

### 6. Favorite Group

Select the **FAV** (favorite) button to view all favorite groups. Scroll through the various favorite group using the **ARROW** buttons, and select the appropriate satellite by pressing **OK**.

### 7. Volume Control

① To control audio volume while you are watching a channel, press **LEFT/RIGHT** button to control volume.
② Volume control bar will be appeared in top of the screen.
③ When necessary, press **MUTE** button to turn audio sound on/off.

### 8. PAUSE

The **PAUSE** button is used to freeze the video. Press **PAUSE** button once more to resume the video.

### 9. Closed Caption

To display of Close Captioning press **C.C** on your remote control. Close Captioning is based on the transmitted data.

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## 10. Audio Track

You can select the audio language list by pressing the **AUDIO** button. Use the **ARROW** buttons to choose the audio track from the list than press **OK** to change.

## 11. Time shifting, Recording and Playback

### 11.1 Recording

① **Recoding Method:** There are two types of recording method.
(Time Reserved Recording / Event Reserved Recording).

**a) Time Reserved Recording:**
In Timer Manager you may set your time/program during this process.

- *Main Menu - System Setting - Timer Manager.*

- Press **GREEN** button to activate the new timer edit screen

- Timer Edit screen you may choose start time, end date/time, mode, type (Recording/Play) and simply press **Yes** button to reserve you recording schedule. Also, you must set you start time and end time to minimum of 5 minutes; start time must be present time.

**b) Event Reserved Recording:**
EPG screen choose the event you wish to reserve or record.

- During LIVE TV press **EPG** button to access EPG screen.

- Go to the event which you wish to view and then press **OK**. The event will be reserved with **BLUE play icon**. ▶ This BLUE play icon means that you want to just watch the event at the reserved time.

- Press the **OK** one more time then the event will be reserved with **RED dot icon**. ◉ This RED dot icon means that you want to record the event at the reserved time.

- When you set an event for recording in EPG. It automatically set in the Timer Event in *Main Menu - System Setting - Timer Manager.*

② **Instant Recording:**
At anytime, you may press **RECORD** button to start you recoding instantly.

③ **Recording Edit:**
During recording, you may press **RECORD** button to edit recording duration time. As it defaulted to 2 hours but you may increase or decrease as you desire.

④ **Long Time recording:**
During long time recording process 4GB or more, additional files may be created every 4GB. (For example; aaa.ts, aaa.ts1, aaa.ts2… and so on) You must remember not to erase any of duplicated file. These files are only able to view with your PC not with receiver**.**

⑤ **Pause during recording**
a) Press **PAUSE** ( ❙❙ ) button to pause the live TV but will continue to record to you external HDD.

*PAUSE icon*

b) Press **PAUSE** button once again and event will resume
from the pause time.

*Play icon*

c) During recording press **PLAY** button to show Play bar screen.

d) Play bar screen you may use the **RIGHT/LEFT** button to move
freely in recorded time.

e) If you press **STOP** button it will stop recording and you may press
**PREV FILE** ( ◄◄ ) button to view recorded file from the beginning.

### 11.2 Time shift

**NOTE** *Time shift works when you set time shift 'On'
in the option of main menu.*

① Press **PAUSE** button to pause the live TV but will continue to record
to external memory.

② Press **PAUSE** button once again and event will resume
from the pause time.

③ During watching live TV press **PLAY/TIMESHIFT** button
to show play bar screen.

④ During play bar screen you may use the ◄ / ► **ARROW** buttons
to move freely in recorded time.

⑤ If you press **STOP** button during timeshift, screen will be changed
to live TV. You may press **PREV FILE**(◄◄) button to move to start
location in recorded time.

### 11.3 Playback

① Press the **PLAY LIST** button to activate the Play List screen.

② In Play List you may choose any of pre-recorded event(s) and
play it by pressing **OK** button.
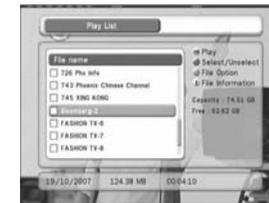
③ In Play List screen, you may press **RED** button to choose
the event you wish to view in order listed in Play List.

④ In Play List screen, **GREEN** button to delete or rename already
recorded event.

⑤ You may press **PAUSE** button at any time to pause
a pre-recorded event.

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⑥ Press **PAUSE** button once again to resume play of the recorded event.

### 11.4 Bookmark

① During Play bar you may move to desire time and book mark by pressing the **RED** button. Bookmark(s) are indicated with Red Dot on the play bar.

② Also, You may press **RED** button to activate play bar to mark your bookmark(s).

③ On play bar any pre-marked bookmarks can be move from bookmark to bookmark by pressing the **GREEN** button.

④ Any Bookmark you wish to remove goes to the bookmark you wish to remove by pressing the **RED** button.

### 11.5 Trick mode

① During play, press the **FAST FORWARD** button once to 2X faster than regular playing speed and once more to 3X faster.

② During play, press the **REWIND** button once to 2X faster than regular playing speed and once more to 3X faster.

## Guide of Main Menu

To display the menu, press **MENU** button at any time. You can select the sub menu using **ARROW** buttons. The selected sub menu becomes highlighted. When you have selected the sub menu you want, press the **OK** button. If you want to return to the previous menu, press the **EXIT** button. And if you want to exit from the menu, press the **MENU** button.

### 1. Installation

#### 1.1 Dish Setting

Select the antenna and LNB settings for channel search. The values that are set in this menu will be available for selection in other channel searching menus.

① **Satellite :** Select the satellite what you want to search the channel.
   - Press the **LEFT/RIGHT** button to select the satellite.
   - Select the wanted satellite name.
   - If the desired satellite name is not listed then select User Defined.

② **Frequency** : Select frequency what you want to check the signal.

③ **LNB Power** : Select the LNB power.

④ **LNB Type :** Select the LNB type.

⑤ **LNB Frequency :** Select the L.O. frequency that is set to antenna.
   - Use the **LEFT/RIGHT** buttons to select the LNB frequency.
   - If the required LNB frequency is not listed, then enter the frequency manually using the **NUMERIC** buttons.
   - When you select Universal in LNB type, both 9750 and 10600 are supported at the same time. And LNB 22KHz setting is disabled.

⑥ **LNB 22 KHz:** When you use a dual LNB or two antennas connected to a 22 KHz tone switch box, make 22 KHz tone switch enable or disable to select LNB or antenna.

⑦ **DiSEqC SW** : Press OK button to set DiSEqC switch.
   - DiSEqC 1.0 : If you use a DiSEqC 1.0 switch, use the ARROW buttons to select one of the DiSEqC inputs.
   - DiSEqC 1.0 (Distant) : If you use additional DiSEqC 1.0 switch, use the ARROW buttons to select one of the DiSEqC inputs.
   - DiSEqC 1.1 : If you use a DiSEqC 1.1 switch, use the ARROW buttons to select one of the DiSEqC inputs

⑧ **Positioner :** Press **OK** button to move to Positioner Setting menu directly.

⑨ **Channel Search :** Press **OK** button to move to Channel Search menu directly.

#### 1.2 Positioner Setting

① **Satellite :** Select the satellite what you want to search the channel.
   - Press the **LEFT/RIGHT** button to select the satellite.
   - Select the wanted satellite name.
   - If the desired satellite name is not listed then select User Defined.

② **Frequency :** Select frequency what you want to check the signal.

③ **Positioner :** Select the positioner.

**None**
- **Dish Setting :**
  Press **OK** button to move to Dish Setting menu directly.
- **Channel Search :**
  Press **OK** button to move to Channel Search menu directly.

**Using DiSEqC 1.2**
- **Move** : To move the dish, press LEFT/RIGHT button.
- **Fine Move** : To move the dish in detail, press **LEFT/RIGHT** button.
- **Positioner Command** : To use various positioner command, press **OK** button. Then, available positioner commands will appear.
- **Dish Setting** : Press **OK** button to move to Dish Setting menu directly.
- **Channel Search** : Press **OK** button to move to Channel Search menu directly.

**Using USALS**
- **Fine Move** : To move the dish in detail, press **LEFT/RIGHT** button.
- **Dish Longitude** : Enter the longitude using the **NUMERIC** buttons.
- **Dish Latitude** : Enter the latitude using the **NUMERIC** buttons.
- **Go To** : Press **OK** button to rotate the dish to the configured position.
- **Positioner Command** : To use various positioner command, press **OK** button. Then, available positioner commands will appear.
- **Channel Search** : Press **OK** button to move to Channel Search menu directly.

## 1.3 Channel Search

① **Satellite :** Select the target satellite for search.

② **Search Mode :** Select the following search mode.

**Auto Search Mode**
- **Search Type** : Select the search type.
- **Network Search** : You can select Off or On. When you select 'On', you can find more transponders using the home network. As it refers to NIT during searching, if there is the frequency information of other transponder, it searches the other transponder besides the transponder that the user inputs.
- **Dish Setting** : Press **OK** button to move to Dish Setting menu directly.
- **Positioner Setting** : Press **OK** button to move to Positioner Setting menu directly.
- **Start Search** : Press **OK** button to start search.

**Blind Search Mode**
- **Frequency** : Set Auto to search whole frequency, Set Manual to search only desired frequency.
- **Polarity** : Select the Horizontal or vertical polarization you wish to search.
- **Search Type** : Select the search type.
- **Dish Setting** : Press **OK** button to move to Dish Setting menu directly.
- **Start Search** : Press **OK** button to start search.

**Manual Search Mode**
- **Frequency** : Select the frequency from the list to search.
- **Symbol rate** : Enter the symbol rate using the **NUMERIC** buttons.
- **Polarity** : Select the polarity.
- **Search Type** : Select the search type.
- **Network Search** : You can select Off or On. When you select 'On', you can find more transponders using the home network. As it refers to NIT during searching, if there is the frequency information of other transponder, it searches the other transponder besides the transponder that the user inputs.
- **Dish Setting** : Press **OK** button to move to Dish Setting menu directly.
- **Start Search** : Press **OK** button to start search.

**Advanced Search Mode**
- **Frequency** : Select the frequency from the list to search.
- **Symbol rate** : Enter the symbol rate using the **NUMERIC** buttons.
- **Polarity** : Select the polarity.(Vertical/Horizontal)
- **Video PID** : Enter the video PID using the **NUMERIC** buttons.
- **Audio PID** : Enter the audio PID using the **NUMERIC** buttons.
- **PCR PID** : Enter the PCR PID using the **NUMERIC** buttons.
- **Start Search** : Press **OK** button to start search.

## 1.4 System Recovery

① **System restore to factory default :**
This menu allows you to restore the factory set values in case the user has encountered some problems after changing any new values of channel data and others which may be in error. Press **OK** button to erase all channels and restore default setting.

② **System restore to stored position :**
This menu allows you to restore the stored values including channel data and system parameters. Press **OK** button to restore all data.

③ **Store system data :**
If you want to use system parameters and channel data in the future, this menu allows you to store current state. Press **OK** button to store current state.

## 1.5 System Information

This displays general information about what hardware and software version your receiver is running on.

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## 2. System Setting

### 2.1 Time Setting

① **Time Setting:** To set the current time, you can use two modes; Auto and Manual.

**Auto Time Setting**
Current time is automatically updated by the GMT from live signal.
- **Local Offset** : Enter the offset value using the standardized information of current channel area.
- **Daylight Saving** : If you want to apply daylight saving, select the country using **ARROW** buttons.

**Manual Time Setting**
- **Date** : Enter the calendar date by using **ARROW** buttons then press **OK** to finish.
- **Time** : Enter the time by using the **NUMERIC** buttons.

② **Clock Mode :** Select the type of clock display(12 Hours or 24 Hours) using **ARROW** buttons.

③ **Wake Up Mode :** Enter the time for the receiver to automatically power ON.
- **Wake Up Date** : Select the date when STB is turn on. Press **OK** button to display calendar.
- **Wake Up Days** : Select a day of the week when STB is turn on.
- **Wake Up Time** : Enter the turn-on time of STB using **NUMERIC** buttons.
- **Wake Up Channel** : Select the service when STB is turn on. Press **OK** button to display channel list.

④ **Sleep Mode :** the time for the receiver to automatically switch OFF and go to standby mode.
- **Sleep Date** : Select the date when STB is turn off. Press **OK** button to display calendar.
- **Sleep Days** : Select a day of the week when STB is turn off.
- **Sleep Time** : Enter the turn-off time of STB using **NUMERIC** buttons.

### 2.2 Timer Manager

Current time is based on the TDT (Time Description Table) in the satellite signal for the current program. Press **GREEN** button to set the current time, Press **RED** button to cancel out the set time.
To change set time from current program, press **OK** button to make change.
If you reserve one or more event through the EPG menu, the reserved event(s) will be added to Timer Manager automatically.

### 2.3 UI Setting

① **Info Box Position :** Set the information window position.

② **Info Box Display Time :** Set the display duration of information window displayed on the screen after changing services.

③ **Volume Bar Display Time :** Set the display duration of volume bar displayed on the screen after changing volume.

④ **Time Shift (USB) :** Set 'On' to run time shifting function. In this case, time shifting function works automatically up to 2 hours if external USB device have enough space. If you set 'Off' this option, time shifting function never works.

### 2.4 Parental Control

Access to services and programs is controlled by a 4-digit secret code that is defined by the user. Whenever you attempt to access parental control menu, the pop-up window will instruct you to input a PIN code.
(If necessary, you can change it.)

| **NOTE** | *The default PIN code is* **'0000'**. |
|---|---|

① **Censorship :** Set the parental guidance rating of highlighted censorship classification. The parental level is given as age-based numbers.

② **Change Pin code :** To change your PIN code, input the new PIN code using **NUMERIC** buttons. To verify the new PIN code, input the new PIN code again.

③ **System :** Set the accessibility of system.

④ **Installation :** Set the accessibility of Installation menu.

⑤ **System Setting :** Set the accessibility of System Setting menu.

⑥ **Edit Channels :** Set the accessibility of Edit Channel menu.

### 2.5 Language Setting

① **Menu Language :** Select the desired menu language by using the **ARROW** buttons.

| **NOTE** | *The Kind of languages can be changed depending on the country. Languages are subject to change without prior notice.* |
|---|---|

② **Audio Language :** Select the default language for audio when changing services. If no language is provided, then the default language of current channel will be automatically selected.

③ **Subtitle Language :** Select the default language for subtitle when changing channels.

### 2.6 A/V Output Setting

① **TV Type :** Select the TV types.(PAL/NTSC/Auto) In Auto mode, the STB is automatically selected as NTSC or PAL according to the channel played.

② **TV Aspect Ratio :** Select the aspect ratio of TV which is connected to STB.(4:3/16:9)

③ **Display Format :** Select the format which the video is to be displayed on screen. (Letter Box/Pan Scan) In case of 16:9 mode, this option is not available.

④ **Sound Mode :** Set the audio mode which is output from the RCA jack. (Stereo/Mono/Left/Right)

⑤ **Closed Caption :** Turns the closed captions On/Off.

⑥ **RF Channel :** Select a RF channel. (3/4)

⑦ **Picture Adjust :** Adjust brightness, contrast and color of screen.

## 3. Channel List

### 3.1 Channel List Manager

Channel List Manager menu will be appeared when press **OK** button.
You can select Edit Mode by press **YELLOW** button.

① **Lock Channels :**
All channel lists will be shown on left side of window, right side will show make channel to be lock. By using **ARROW** and **OK** button you may move the chosen channel to right side window to lock channel.

② **Move Channels :**
All Channel Lists will be shown on left window, Channel Lists for moving will be shown on right Window. Move the Channel to Right window by using **ARROW** and **OK** button, then right window channels will be moved to related location when select desired location from the left window.

③ **Delete Channels :**
All channel lists will be shown on left side of window. By using **ARROW** and **OK** button you may select channels to be delete. And press **GREEN** button to delete the selected channels.

④ **Skip Channels :**
All channel lists will be shown on left side of window, right side will show make channel to be skip. By using **ARROW** and **OK** button you may move the chosen channel to right side window to skip channel.

⑤ **Set Favorites :** Press **FAV** button to mark the favorite group list. Once, favorite group is chosen, left side window will show all channel list marked and right side window will show only the marked channel list.
Using **ARROW** and **OK** buttons you may add any channel to the favorite group or delete any channel from the favorite group.

⑥ **Edit Channel Name :**
All channel lists will be shown on left side of window.
Move the highlighted bar to the channel what you want to edit its name and press **OK** button. Then you can see the virtual keyboard.
Using **ARROW** and **OK** buttons, you can edit the channel name.

### 3.2 Channel List Option

① **Channel List Preview**
**Setting 'ON'** : If you change channel using **ARROW** buttons and press **OK** in the Channel List, channel will be played which you want. But Channel List still remains. To remove Channel List on screen, press **OK** one more time.
**Setting 'OFF'** : If you change channel and press **OK** in the Channel List, channel will be played. And Channel List disappear at the same time.

② **Lock Favorite Popup**
**Setting 'ON'** : If you press GREEN button to open Set Favorite menu, you must enter PIN code
**Setting 'OFF'** : PIN code is not required.

③ **View Only Filtered List :**
**Setting 'ON'** : If you sort channels with any category(A~Z, Transponder, Group or CAS) in the Channel List, only filtered channels will be shown on the Channel List.
**Setting 'OFF'** : All channels will be shown on the Channel List. And filtered channels are highlighted with yellow color.

## 4. Utilities

### 4.1 USB

① **System Setting** : 7100 miCro-PVR have two USB port. One is in the front panel and the other is in the rear panel.
With this option, you can activate or inactivate these USB ports.
- **Rear** : Activate rear USB port. In this case front USB port is not available.
- **Front** : Activate front USB port. In this case rear USB port is not available.
- **Auto Detect** : Activate the USB port which is connected to external USB device automatically.

② **MP3 Player** :
Stick the external USB memory into the provided USB port on front panel. Once inserted, press OK button to read external USB memory stick and choose the MP3 file from the window you want to play.

③ **Image Viewer** :
You can display the image file that is in the external USB memory stick on the screen. Select the image file(JPEG format) and press OK button to display the image.

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④ **Format** : Before you use your USB external device, we recommend
for you to format it by Format(USB) menu.

**NOTE** *If you execute format, all data will be deleted.*

**4.2 Data Transfer**

① **Transfer all System data to USB storage** :
If you want to use system parameters and channel data in the future,
this menu allows you to store current state. Press **OK** button to store
current state to external USB storage.
② **Transfer Channel data to USB storage** :
If you want to use channel data in the future, this menu allows you to
store current channel data. Press **OK** button to store current channel
data to external USB storage.
③ **Data download from USB storage** :
This menu allows you to download the stored data from external USB storage.
Press **OK** button to download data.

**4.3 Calendar**

To display calendar, press **OK** button. Utilize **ARROW** buttons to choose
the date, button **UP/DOWN** will switch from past/next month.
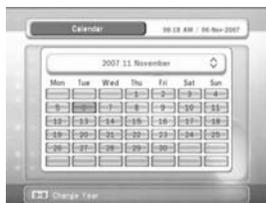
**4.4 Calculator**

To use a calculator, press **OK** button.

**4.5 Games**

To enjoy Game, press **OK** button.
And you can play the Game*(CAKEPIA)*.
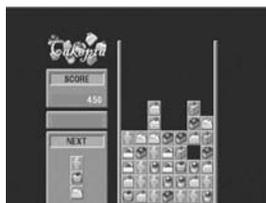
# Troubleshooting

| Problem | Solution |
|---|---|
| *Does not display any message on the front panel.* | - Check the main power cable and check that it is plugged into a suitable power outlet.<br>- Check you have switch the STB main power switch ON at the rear of the STB. |
| *No Picture* | - See *'Does not display any message on the front panel'* **above.**<br>- Check the video output port is firmly connected to the TV or VCR.<br>- If you are using the RF output, check that the RF lead is connected firmly to the STB and TV/VCR.<br>- Check that you have selected the correct channel or Video Output on your TV.<br>- If you are using the RF Output, check that you have correctly tuned the UHF channel of the STB or TV.<br>- Check the brightness level of the TV. |
| *Poor picture quality* | - See *'No Picture'* **above.**<br>- Check the signal level, if this is low then try adjusting the alignment of your dish. |
| *No Sound* | - See *'No Picture'* **above.**<br>- Check the volume level of the TV and STB.<br>- Check the Mute status of the TV and STB. |
| *Remote Control does not operate* | - Point remote control directly towards the STB.<br>- Check and replace batteries. |
| *No or Bad Signal* | - Check the LNB ; Replace LNB if necessary.<br>- Check the cable from the LNB.<br>- Check the position of the dish; realign dish if necessary.<br>- If you are using a DiSEqC 1.0 switch, check that you have connected the LNBs to the correct connections on the switch.<br>- Check the *'Signal Level'* and the *'Signal Quality'*. |

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