# ROV-1000 (CHAMELEON)

# 10.2"Overhead DVD Player

## OPERATION MANUAL

*Raymedia Co., Ltd*
*2005. 04. 23*

## Important safety instruction

- ✓ Read these instructions
- ✓ Keep these instructions
- ✓ Heed all warnings
- ✓ Follow all instructions
- ✓ Do not use benzene, thinner, solvents or any other chemical for cleaning
- ✓ Wipe the cabinet with a soft cloth

**WARNING** :

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the cabinet (or back). Refer servicing to qualified personnel only.

## Safety precaution


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


This symbol indicates important instructions accompanying the product

**CAUTION:** DVD PLAYERS USE AN INVISIBLE LASER BEAM, WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.   BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTION.

**FCC NOTICE**

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 or television reception, which can be determined by turning the equipment off and on.

**RMC.**

**FCC Warning Statement**

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV
INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS
EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY
TO OPERATE THE EQUIPMENT.

**Disc storage**

- ✓ Be careful not to harm the disc because the data on these discs is highly
  vulnerable.
- ✓ Do not keep under direct sunlight.
- ✓ Keep in a cool, ventilated area.
- ✓ Store vertically.
- ✓ Keep in a clean protection jacket.

**COPY PROTECTION**

Many DVD discs are encoded with copy protection. Because of this, you
should only connect your DVD player directly to your TV, not to a VCR (Video
Cassette Recorder). Connecting to a VCR can result in a distorted picture from
copy -protected DVD discs.

This product incorporates copyright protection technology that is protected by
methods claims of certain U.S. patents and other intellectual property rights owned
by Macrovision Corporation and other rights owners. Use of this copyright
protection technology must be authorized by Macrovision Corporation, and is
intended for home and other limited viewing uses only, unless otherwise authorized
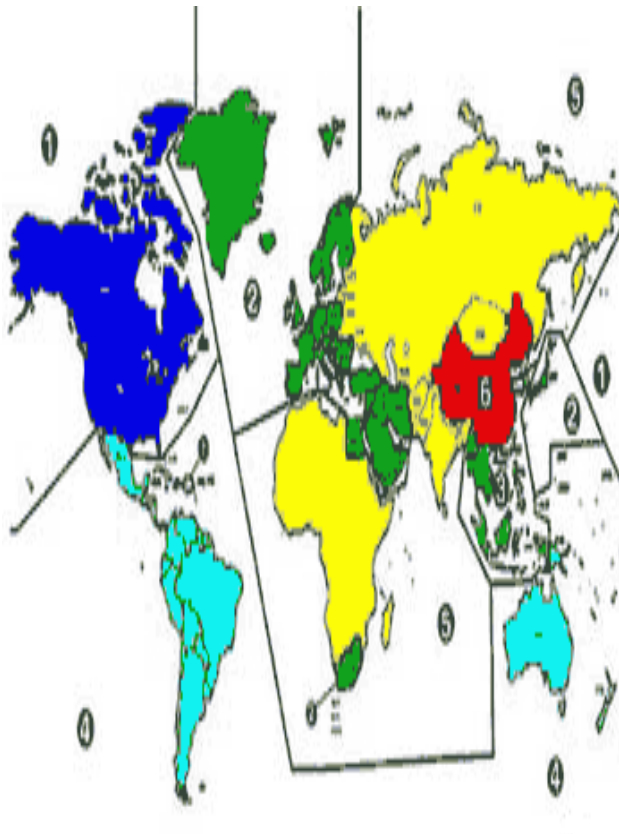by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

**Regional coding**

Both the DVD player and disc are coded by region. These regional codes
must match in order for the disc to play. If the codes do not match, the disc will
not play.

Other regional codes cannot be played in this unit. The unit will display
"WRONG REGION."

Region codes are printed on the DVD disc or protection jacket (rear side)
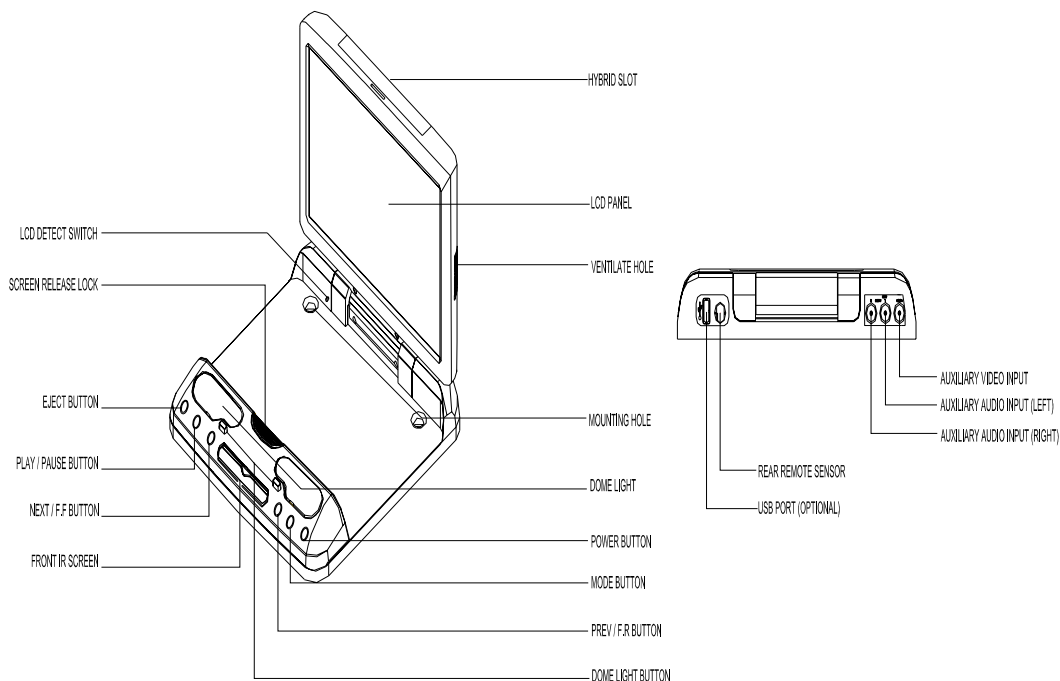
① ② ③ ④ ⑤ ⑥



1. Canada, U.S., U.S. Territories
2. Japan, Europe, South Africa, Middle East (including egypt)
3. Southeast Asia, East Asia (including Hong Kong)
4. Australia, New Zealand, Pacific Islands, Central America, Mexico, South America, Caribbean
5. Former Soviet Union, Indian Subcontinent, Africa (also North Korea, Mongolia)
6. China

Congratulations on your purchase of the Raymedia Co.,Ltd  ROV-1000(CHAMELEON) 10.2" overhead DVD player. Before operating this 10.2" overhead DVD player, please read this manual thoroughly and retain it for future reference.

## General features

• World slimmest & most compact 10.2" overhead DVD player (38mm)

• Patent hybrid slot loading mechanism

• Heat prevention from the roof

• Easy access to disc slot

• Anti shock, anti vibration and wide temperature endurance

• 10.2" wide screen TFT LCD panel (16:9 aspect ratio)

• Built-in DVD loader on the backside of LCD panel

• NTCS/PAL auto switching by video source

• Full function remote control with on screen display

• Attachable TV tuner and FM transmitter (optional)

• USB port for external USB device (optional)

• Built-in 6 LED IR transmitters for a wireless headphone

• Two audio/video inputs (composite video)

• Digital audio output for an external amplifier

• Last scene memory function for DVD

• 3-way remote sensor eyes (front, rear and external)

• Dual bright dome light

HYBRID SLOT

LCD PANEL

LCD DETECT SWITCH

SCREEN RELEASE LOCK

VENTILATE HOLE

EJECT BUTTON

MOUNTING HOLE

PLAY / PAUSE BUTTON

NEXT / F.F BUTTON

DOME LIGHT

FRONT IR SCREEN

POWER BUTTON

MODE BUTTON

PREV / F.R BUTTON

DOME LIGHT BUTTON

AUXILIARY VIDEO INPUT
AUXILIARY AUDIO INPUT (LEFT)
AUXILIARY AUDIO INPUT (RIGHT)

REAR REMOTE SENSOR
USB PORT (OPTIONAL)

## Main function descriptions

1. **Front IR screen**

   Transmits audio to wireless headphones and receives remote control signal from the
   remote control.

2. **POWER button**

   Turns ROV-1000 (CHAMELEON) on or off

   Button backlight is red color

3. **PLAY/PAUSE button**

   Press this button to activate the play mode while a disc is loaded into the disc
   compartment.

   Press the button again to allow the user to pause the playback

Button backlight is green color

4. **NEXT/ F.F button**

   Allows the user to advances to the next chapter, track or scene during playback.

   Press the button to allow NEXT and Press the button longer to work fast forward.

   Button backlight is green color

5. **PREV/ F.R button**

   Allows the user to goes back to the preceding chapter, track or scene during playback.

   Press the button to allow PREV and Press the button longer to work FR.

   Button backlight is green color

6. **MODE button**

   Switches input source (DVD, TV, AUX1 or AUX2)

   Button backlight is green color

7. **EJECT button**

   Stops play and ejects disc.

   Button backlight is green color

8. **Dome lights button**

   Press this button to turn the dome light on.

   Press the button again to turn the dome light off

9. **LCD release lock button**

   Press this button the LCD screen drop down slightly

10. **LCD detect switch**

    Turn LCD power off when panel is closed

11. **Auxiliary video input.**

    Auxiliary video input port

12. **Auxiliary audio input (left/right).**

    Auxiliary audio input ports (left/right)

13. **Rear remote sensor**

    For remote control operation only

14. **USB port (optional)**

    For external USB device (memory stick, multi card reader, hard disk, MP3 player and

    digital camera)

# Remote control operation

### Battery installation

Before attempting to operate your remote control, install the battery as described below.

1) Turn the remote control face down. Using a clip and/or fingertip, pull down the battery cover open.
2) Install one "CR2025" battery as shown. Make sure that proper polarity (+ or -) is observed.
3) Align the cover tabs with the remote control and press down until the cover clicks.

### If remote doesn't operate properly

1) Check the polarity +/- of the battery (Coin-Cell).
2) Check if the battery are drained.
3) Check if remote sensor is blocked by obstacles.
4) Check if there is any fluorescent lighting nearby.

### Using the remote control

1) Point the remote control at the remote sensor located on the unit.
2) When there is bright ambient light near the unit, the performance of the infrared remote sensor may be degraded, causing unreliable operation.
3) The recommended effective distance for remote operation is about 7 meter.

### Battery replacement

When battery become weak the operating distance of the remote control is greatly reduced and you will need to replace the battery.
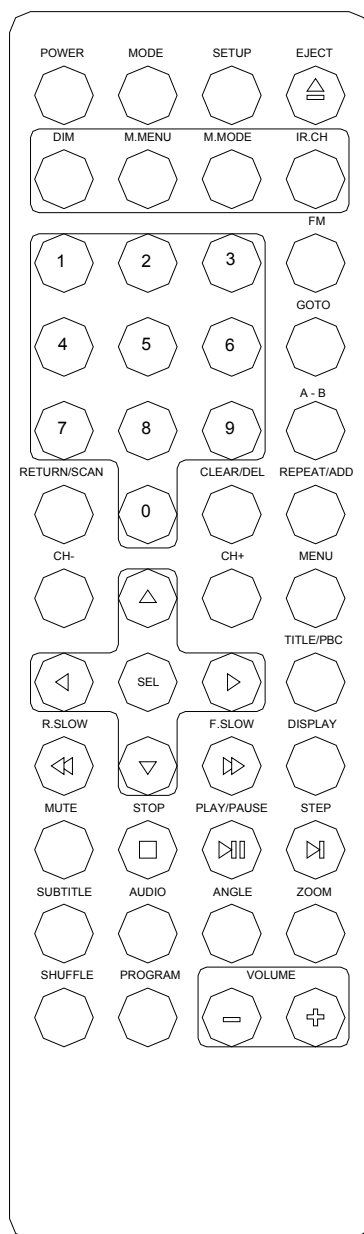
### *Notes*

1) *If the remote control is not going to be used for a long time (more than several weeks), remove the battery.*

2) *Do not mix ALKALINE, standard ( CARBON-ZINC) or rechargeable (NICKEL-CADMIUM) battery.*

**WARNING**

Do not dispose of battery in fire, battery may explode or leak.

1) POWER

Turns on or off the DVD player.

2) MODE

Use to select a input source. (DVD/TV/AUX1/AUX2)

3) SETUP

Use to set various functions according to individual preference.

4) EJECT

Open/Close the disc tray or ejecting / loading the disc slot.

5) DIM

Use to LCD backlight adjustment.

6) M.MENU

Use to LCD screen menu.

7) M.MODE

Use to LCD screen mode (3:4, WIDE, ZOOM) select.

8) IR.CH

Use to IR audio transmitter frequency select.

9) FM

Use to FM transmitter frequency select.

10) GOTO

Use to go to specific time or chapter and playing.

11) A - B

Repeats the selected segment.

12) NUMBER (1,2,3...9,0)

Use from the menu to select, title/chapter search, time search and direct track number.

13) RETURN/SCAN

Return to the normal operation after using the setup menu.

Use to TV channel scanning, the TV will stop on active channel.

14) CLEAR/DEL

Use when discarding wrong number input or returning to normal play during slow or search.

Use to delete TV preset channel from memory (Erase).

15) REPEAT/ADD

Repeats part all of a chapter, title, track or an entire disc.

Use to add TV preset channel to memory (Store).

16) CH- ( ‖ ◀◀ )

Use to move to the previous chapter or track.

Use to flip down through the TV channels.

17) CH+ (▶▶ ‖ )

Use to move to the next chapter or track.

Use to flip up through the TV channels.

18) MENU

Use to display the contents menu of the loader disc.

19) ▲ ▼ ◀ ▶

Use to selection on the menu screen.

20) SEL

Selects menu items and begins disc play.

21) TITLE/PBC

Use the display the title menu of the loaded DVD disc.

Use to select a particular scene or information of a VCD disc from the menu screen.

22) R.SLOW (◀◀)

Backwards through the DVD disc from 2X to 64X faster. Forwards through the disc from 2X to 8X faster.

23) F.SLOW (▶▶)

Forwards through the DVD disc from 2X to 64X faster. Forwards through the disc from 2X to 8X faster.

24) DISPLAY

Shown the information about title, chapter and time.

25) MUTE

Use to mute the audio. Pressing button again restores sound the previously set level.

26) STOP (■)

Stops disc play. When playing a VCD (PBC ON), the previous scene will appear.

27) PLAY/PAUSE (▶ ‖ )

Begins / Pauses disc play.

28) STEP (▶│)

Advances playback one frame at a time.

29) SUB TITLE

Changes the current subtitle language to another language or switches of the language display.

30) AUDIO

Changes the audio language to another available language.

31) ANGLE

Changes the playing angle another available angle (multi angle title only).

32) ZOOM

Zooms in on picture.

33) SHUFFLE

Plays the disc in random order.

34) PROGRAM

Use to CD program function.

35) VOLUME (+)

Use to volume increase.

36) VOLUME (-)

Use to volume decrease.

# Turning the ROV-1000 (CHAMELEON) on/off

1. Sliding the screen release lock forward will unlock the LCD screen and it will drop down slightly. The internal hinge will hold the screen in position while the system is in use.
2. Pressing the power button on the unit or the remote control will turn the system on or off alternately. When in use the internal backlighting will illuminate the controls.

# Overhead dome lights

The lights integrated into the ROV-1000 (CHAMELEON) are controlled by push-button switch. Push-button switch to the protruding position will turn the lights off. And the other position will turn on the lights.

# Remote Sensor

The ROV-1000 (CHAMELEON) incorporates three Infrared sensors that relay signals from the remote control to allow the unit to be controlled simply by pointing its remote control at the remote sensor eye.

# DVD basics

To get the optimum use out of the DVD section, make sure you read this section completely.

### Types of discs your DVD will play

**DVD** • DVD discs – DVD discs that contain video.
VIDEO

• Audio discs – Audio CDs contain musical or sound content only.

**MP3** • MP3 discs – A disc that contains audio files (For example, a CD-R with

down-loaded MP3 files).

• VCD discs –VCD discs which contain video.

• DVD-Recordable discs- Discs that contain video

• DVD-Rewritable discs- Discs that contain video

## Loading and playing discs

Before you load a disc, make sure that it is compatible with the

player.

The following discs cannot be used with this player;

• All 80mm discs CDDA or DVD-Video, DVD-Audio.

• Mini disc(MD).

• Laser disc(LD).

• CD-I, CD-ROM, DVD-ROM, DVD-RAM.

## To load and play a disc

Press the power button to turn the unit on. Select DVD mode and

insert the disc (face up) into the disc compartment. (Hybrid slot)

## Setting and adjustment for LCD

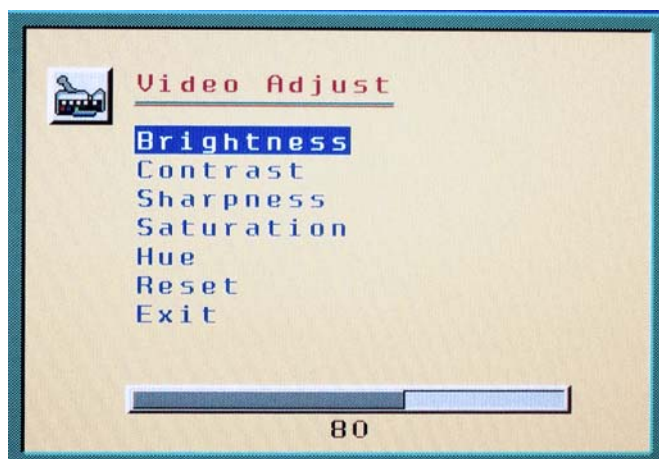This chapter describes how to set and how to adjust using the on-screen LCD setup menu.

### Main menu

LCD setup menu has graphic user interface and it has four sub-menu video adjust, OSD setting, video input select and audio setting.



### Video adjust menu setup

Video adjust menu allows user to adjust for brightness, contrast, sharpness, saturation, hue or factory default setup.

**OSD setting menu setup**

OSD (On Screen Display) setting menu allows user to adjust for LCD monitor position (horizontal or vertical), OSD display timeout, OSD language or OSD transparency.



6 languages are available (see below picture).



**TV function menu setup**

TV function menu allows user can control TV function such as MTS, media, auto-scan, set channel, add / del channel, channel label and channel tracking.

AUTO SCAN menu allows user to set all active channel in
the particular area to be automatically preset to the memory**.**

SET CHANNEL menu allows user to setting for active channel.



ADD / DEL CHANNEL menu allows user to add current channel to memory (store) or delete preset channel from memory (erase)
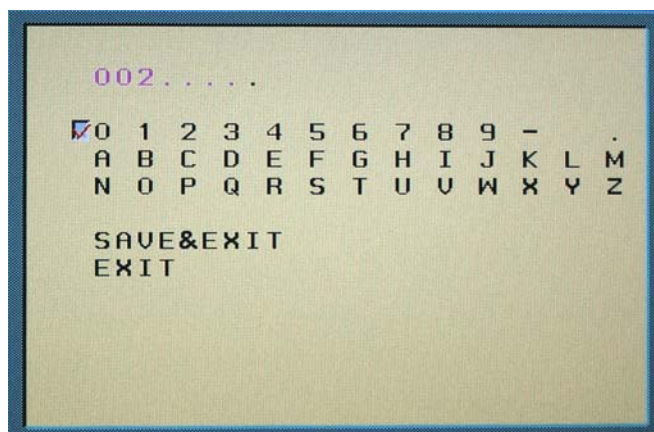
CHANNEL LABEL menu allows user to added TV preset channel with label.



**39 characters are available (see below picture)**

**CHANNEL TRACKING menu allows user to adjust TV channel.**
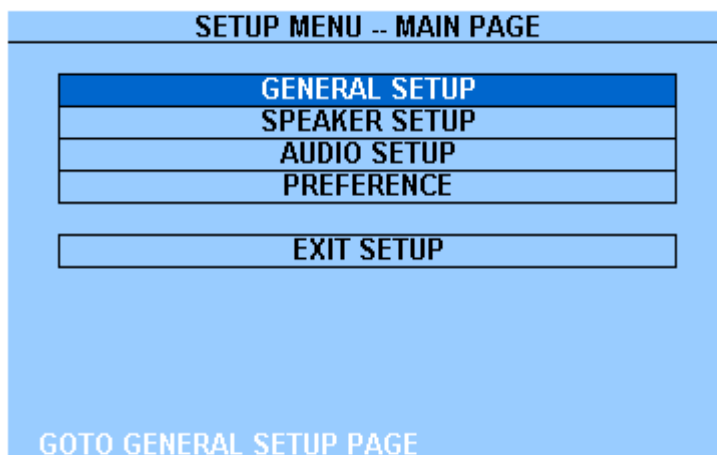


**Exit to LCD setup menu**

Exit to menu allows user to exit to LCD setup menu

# Settings and adjustments for DVD

This chapter describes how to set and how to adjust using the on-screen DVD setup menu.

```
SETUP MENU -- MAIN PAGE

        GENERAL SETUP
        SPEAKER SETUP
        AUDIO SETUP
        PREFERENCE

        EXIT SETUP

GOTO GENERAL SETUP PAGE
```
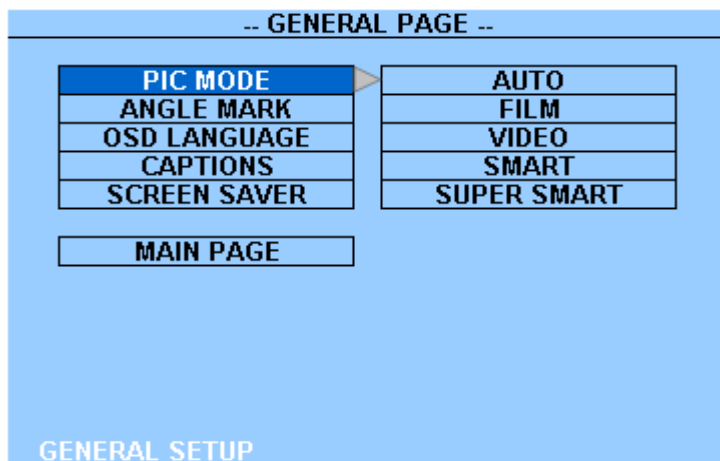
**Using the setup menu**

Using the setup display, you can do the initial setup, adjust the picture quality and set the various outputs. You can also set a language for the on-screen display, the setup display and limit play back by children.

1) Press the SETUP button to display the "setup menu" on the TV screen.

2) Select the main item you want using the▲▼ buttons, and then press the SEL button.

**PIC MODE menu setup**

PIC MODE menu allows user to adjust picture state.

```
-- GENERAL PAGE --

    PIC MODE      ▷      AUTO
    ANGLE MARK           FILM
    OSD LANGUAGE         VIDEO
    CAPTIONS             SMART
    SCREEN SAVER         SUPER SMART

    MAIN PAGE

GENERAL SETUP
```
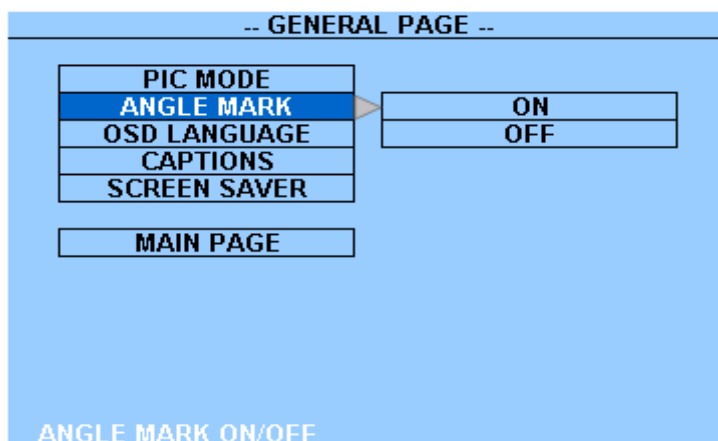
**ANGLE MARK menu setup**

ANGLE MARK menu allows user to select angle of display.
ANGLE MARK menu is available only when the disc in with angle marks
(multi angle).

```
-- GENERAL PAGE --

        PIC MODE
        ANGLE MARK          ▷        ON
        OSD LANGUAGE                 OFF
        CAPTIONS
        SCREEN SAVER

        MAIN PAGE

ANGLE MARK ON/OFF
```

**OSD LANGUAGE menu setup**

`        The OSD LANGUAGE menu allows the user to select the language
for the on-screen display. Press  ▶   and then use the  ▲▼  buttons to
select the desired language. The user can select English, French or
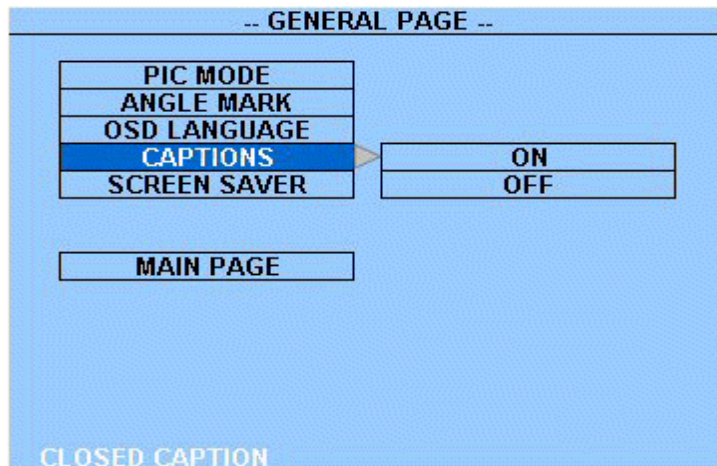Spanish for the OSD language.
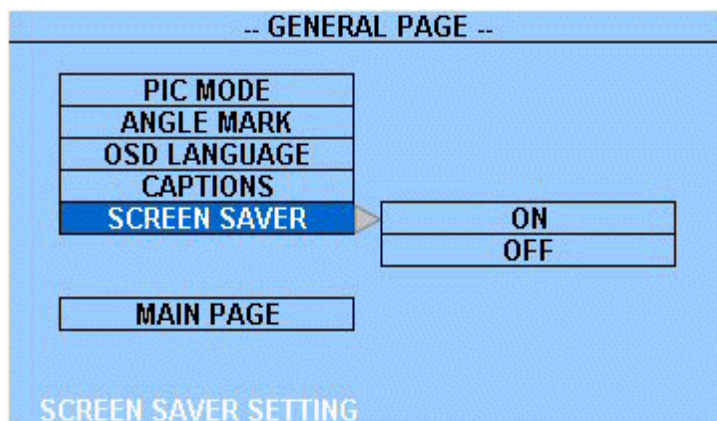Press the SETUP button and using the  ▲▼  buttons select "OSD
LANGUAGE".

```
-- GENERAL PAGE --

        PIC MODE
        ANGLE MARK
        OSD LANGUAGE        ▷    ENGLISH
        CAPTIONS                 FRENCH
        SCREEN SAVER             SPANISH
                                 CHINESE
                                 JAPANESE
                                 GERMAN
                                 ITALIAN
                                 OTHERS

        MAIN PAGE

SET OSD LANGUAGE
```

**CAPTIONS menu setup**

CAPTIONS menu allows user to select the caption menu. CAPTIONS menu is available only when the disc has caption function.



**SCREEN SAVER menu setup**

SCREEN SAVER menu allows user to prevent monitor screen from becoming damaged. A moving logo/picture appears on the screen when you leave the player in stop mode after several minutes.
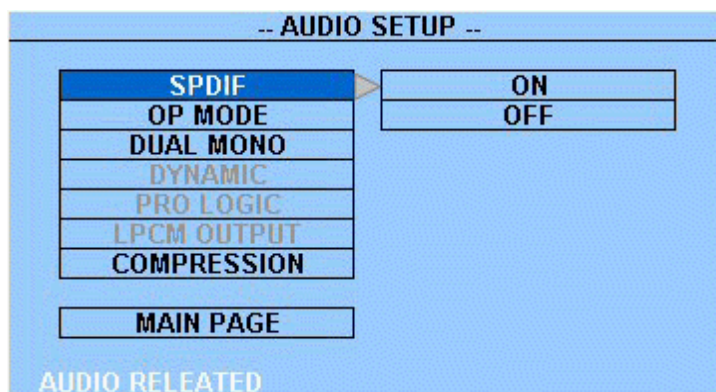
**SPEAKER SETUP menu setup**



**SPDIF menu setup**

SPDIF menu allows to user can control coaxial digital audio output.



**OP MODE menu setup**

OP (operational) MODE menu allows user to control line out or RF REMOD output.
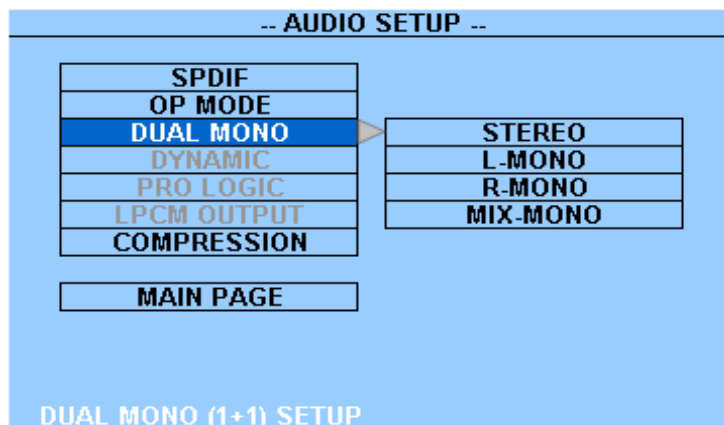


LINE OUT : Lineout mode, with digital dialog normalization.

RF REMOD : RF re-modulation mode, with heavy compression and digital
         dialog normalization.

**DUAL MONO menu setup**

    DUAL MONO menu allows user to control output consisting of two
independent audio channels.



STEREO       : reproduce both channel as it is.

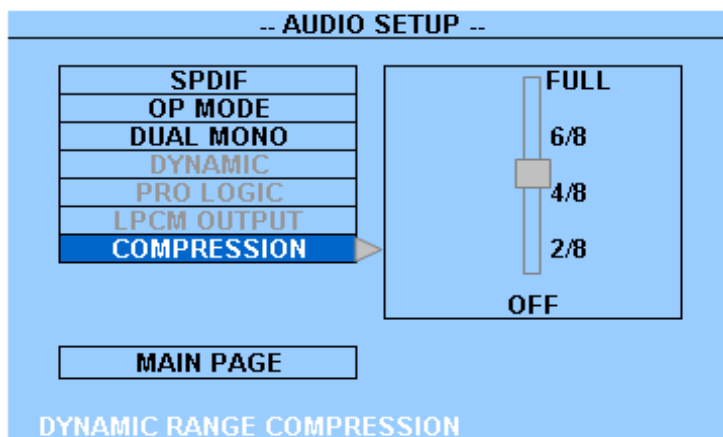L-MONO       : reproduce the left channel only.

R-MONO       : reproduce the right channel only.

MIX-MONO    : mix both channels.

**COMPRESSION menu setup**

    COMPRESSION menu allows user to select the dynamic range of
discs sound tracks.

It is useful when you listen to a movie at a lower volume without losing
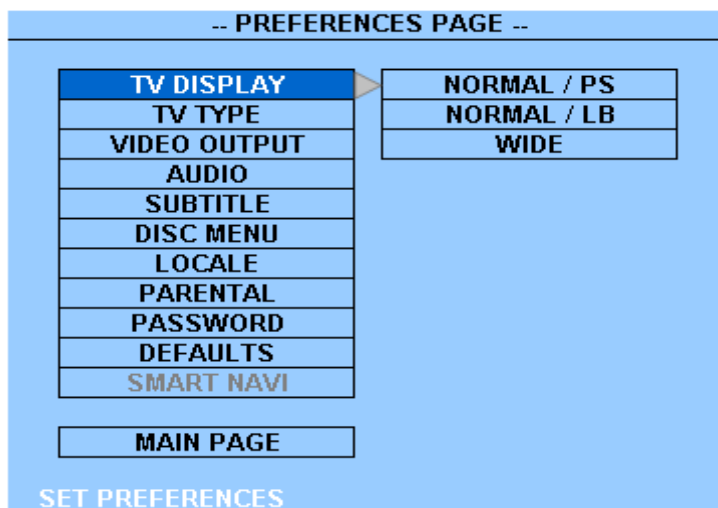dialogue intelligibility.

**TV DISPLAY menu setup**

TV DISPLAY menu allows user to adjust screen setting (aspect ratio).

Press ▶ and then use the ▲▼ buttons to select the appropriate settings.

```
-- PREFERENCES PAGE --

TV DISPLAY      ▷    NORMAL / PS
TV TYPE              NORMAL / LB
VIDEO OUTPUT            WIDE
AUDIO
SUBTITLE
DISC MENU
LOCALE
PARENTAL
PASSWORD
DEFAULTS
SMART NAVI

MAIN PAGE

SET PREFERENCES
```

NORMAL/PS: Normal (4:3) / pan & scan display.

NORMAL/LB: Normal (4:3) / letter box display.

WIDE: 16:9 Wide screen display.


*PS (Pan & Scan): displays the wide picture on the whole screen with a left & right portion automatically cut off.*
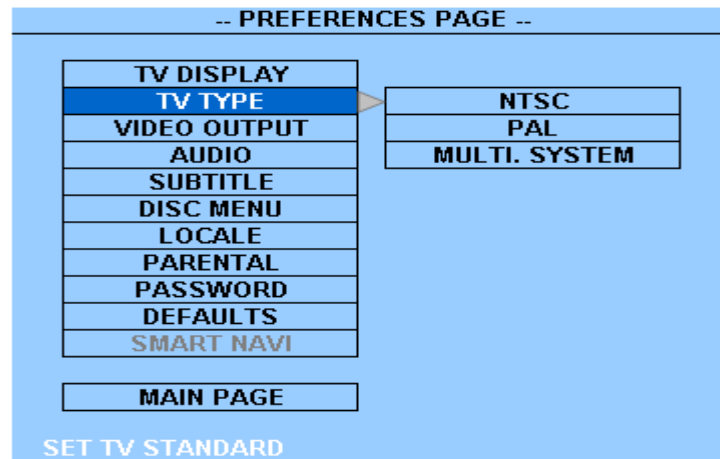
*LB (Letter Box): displays the wide picture with bands displayed on the upper and lower portions of the screen.*

*Note: Depending on the disc, availability of the aspect ratio of the play back picture may be limited.*

### TV TYPE menu setup
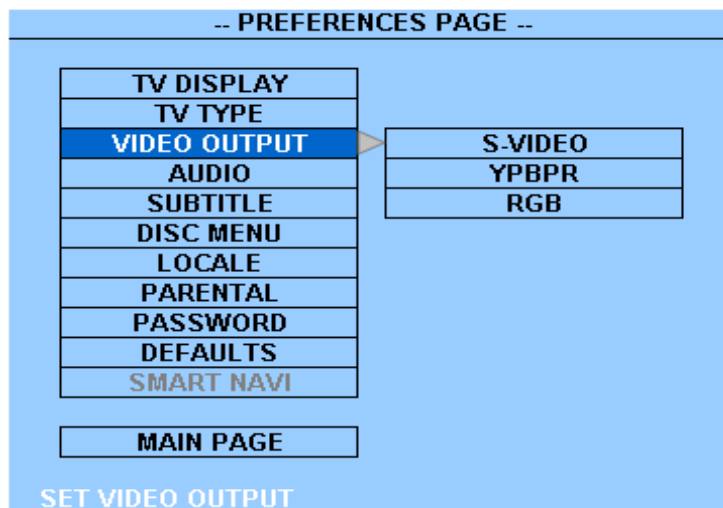
TV TYPE menu allows user to select the color system.



NTSC: Available in USA, Korea, Japan, etc…

PAL   : Available in E.U, China, etc…

### VIDEO OUTPUT menu setup

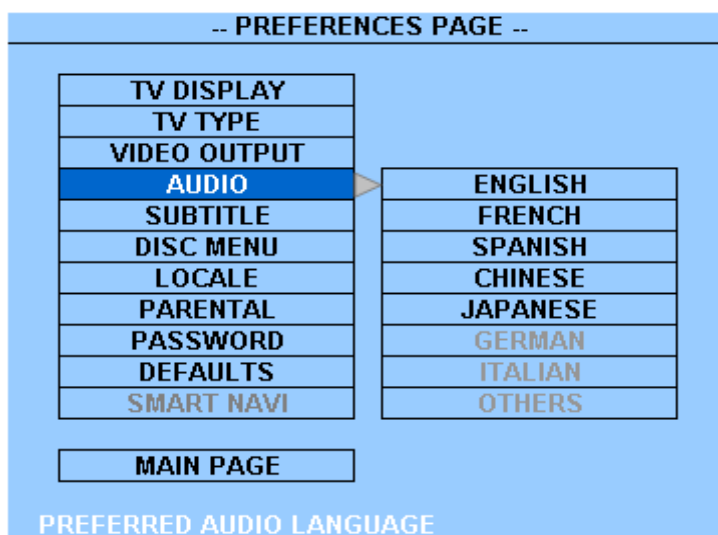VIDEO OUTPUT menu allows user to select video output system.

### AUDIO menu setup

AUDIO menu allows user to select their preferred audio language. It is possible to change the audio soundtrack language.

These functions is useful only with discs on which multiple audio soundtrack language are recorded.
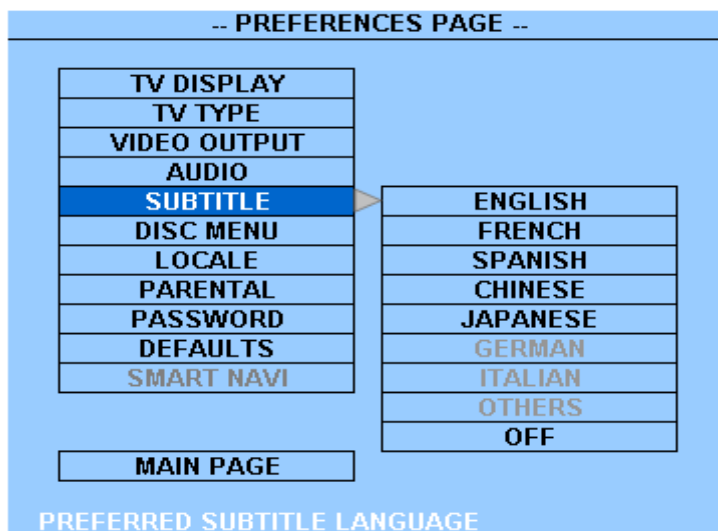
| -- PREFERENCES PAGE -- | |
| --- | --- |
| TV DISPLAY | |
| TV TYPE | |
| VIDEO OUTPUT | |
| AUDIO ▷ | ENGLISH |
| SUBTITLE | FRENCH |
| DISC MENU | SPANISH |
| LOCALE | CHINESE |
| PARENTAL | JAPANESE |
| PASSWORD | GERMAN |
| DEFAULTS | ITALIAN |
| SMART NAVI | OTHERS |
| MAIN PAGE | |
| PREFERRED AUDIO LANGUAGE | |

*Note: Available languages depends on disc.*


### SUBTITLE menu setup

SUBTITLE menu allows user to select the preferred subtitle language.

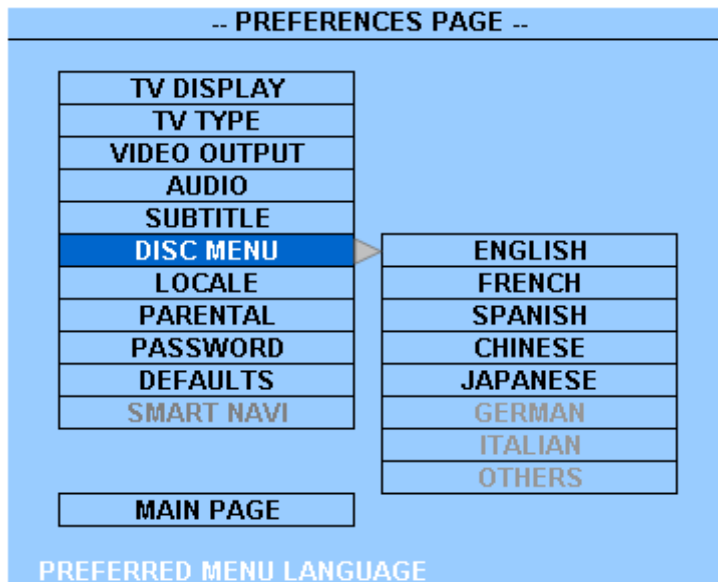This function is useful when the disc has a function or multiple subtitle language.

| -- PREFERENCES PAGE -- | |
| --- | --- |
| TV DISPLAY | |
| TV TYPE | |
| VIDEO OUTPUT | |
| AUDIO | |
| SUBTITLE ▷ | ENGLISH |
| DISC MENU | FRENCH |
| LOCALE | SPANISH |
| PARENTAL | CHINESE |
| PASSWORD | JAPANESE |
| DEFAULTS | GERMAN |
| SMART NAVI | ITALIAN |
| | OTHERS |
| | OFF |
| MAIN PAGE | |
| PREFERRED SUBTITLE LANGUAGE | |

*Note: Available subtitle languages depends on disc.*

### DISC MENU menu setup

DISC MENU allows user to select the language to be used in the disc menu. (*Not the same as the player menu*).
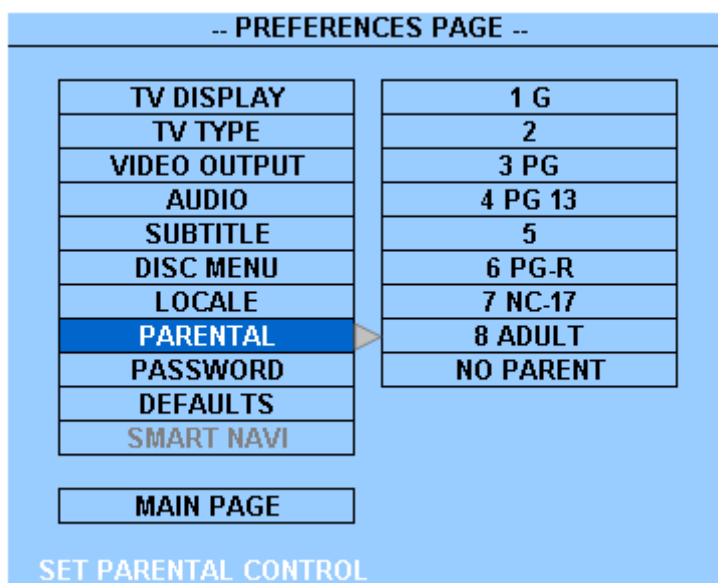


*Note: Available disc menu languages depends on disc.*

### PARENTAL (Parental Control) menu setup

PARENTAL menu allows user to control the content of movie playback from 1G to NO_PARENT.

The parental control function allows you to limit viewing to your preference. It works with DVD's that have been assigned a rating.
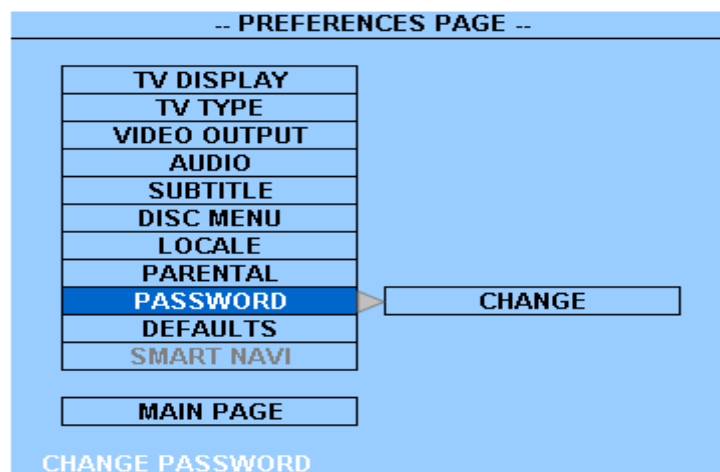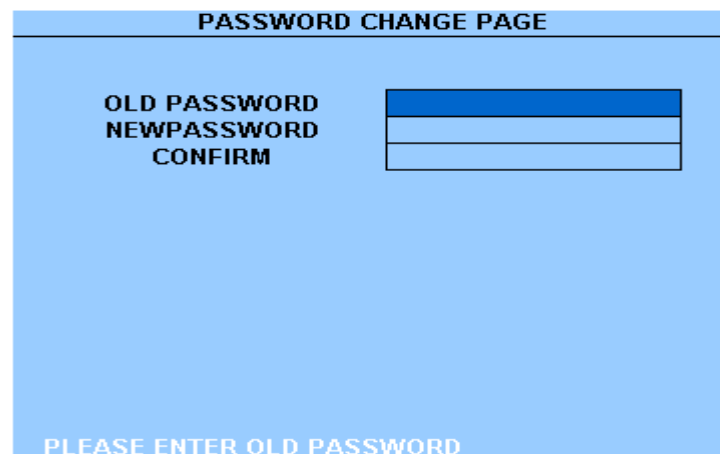
Use the ▲▼ buttons to select.

     1G (Children)

     2

     3PG

     4PG 13

     5

     6 PG-R

     7 NC-17

     8 ADULT

     NO_PARENT (No Parental Control)

### PASSWORD menu setup (For Parental Control)

PASSWORD menu setup allows you to change the parental control password.



Press ▶ and then press SEL.

*OLD PASSWORD*

Enter the old password or the default password (4 digits).

*NEW PASSWORD*

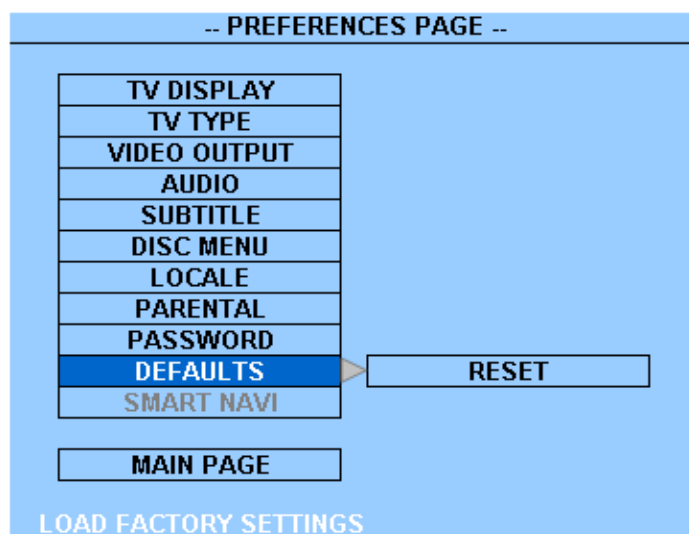Enter the new password (4 digits) from the remote control digit key.

*CONFIRM*

Confirm the new password by entering the same new password again. Then press SEL to implement it. If the confirmation is incorrect, Password change page will be displayed again. Input a password in 4 digits using the numeric buttons then press the SEL button.

**The Default password is 3308**.

**DEFAULT menu setup**

DEFAULT menu allows you to reset all options to factory defaults.



Press ▶ and then press SEL to implement the reset.

*Note: This function will not affect the parental setting.*

## Playing audio CDs

When playing an audio CD, the DISPLAY Banner appears automatically. It displays the current track and the amount of the time for that track playing, the total amount of time on the disc and the current time running on the disc.

## Playing MP3 Discs

MP3 is a format for storing digital audio. An audio CD-quality song can be compressed into the MP3 format with very little loss of quality, while taking up much less space. CD-R discs that have been encoded in MP3 format can be played on your DVD player.

**RMC.**

# Specifications

| | | |
|---|---|---|
| General Specification | Power Requirement | DC 12V (DC 10~16V) |
| | Power Consumption | Max. 30W (w/o Dome light) |
| | Dimension | 252mm(W) X 38mm(H) X 252mm(D) |
| | Net Weight | 1.9kg |
| | Operation Temperature | -20 ~ 70º C |
| | Storage Temperature | -40 ~ 90º C |
| | Operating Humidity Range | 0%~80%(RH) |
| | Storage Humidity Range | 0%~90%(RH) |
| LCD Specification | Panel Size | 10.2 inch (222mm*133.2mm) |
| | Aspect Ratio | 16:9 (wide screen) |
| | Panel Type | Color TFT active matrix LCD |
| | Resolution | 800 (W) X 480 (H) |
| | Pixel Pitch | 0.278mm *0.278mm |
| | Brightness | 450 (cd/㎡ ) |
| | Contrast | 400 : 1 |
| | Response Time | 30ms |
| | Viewing Angle | Left/Right : 65º/65º   ,   Up/Down : 50º/65º |
| Applicable Disc | DVD | DVD-5, DVD-9, DVD-10, DVD-18, DVD-Video, DVD-Audio, DVD±R, DVD±RW |
| | CD | Video CD 1.1,2.0 , DVCD, SVCD, CVD, HDCD, Mixed-mode CD, CDDA, MP3, CD-R, CD-RW |
| Video output | Video Output | 1.0Vp-p (at 75Ω) |
| Analog Audio output | Audio Output | 2.0Vrms (at 1Khz) |
| | Frequency Response | 4Khz ~ 22Khz (at 48Khz Sampling) <br> 4Khz ~44Khz (at 96Khz Sampling) |
| | S/N Ratio | More than 90dB |
| | Dynamic Range | 85dB (at 1Khz) |
| Digital Audio | Digital Audio Output | 0.5Vp-p (at 75Ω) |
| IR Audio | IR Audio Frequency | Left : 2.3Mhz / Right : 2.8Mhz <br> Left : 3.2Mhz / Right : 3.8Mhz |
| | Effective IR Listening Angle | 30 degree |
| | IR Audio Range(Max.) | 4 meter |
| TV/FM | TV/FM Receiving Method | Global (NTSC/PAL) |
| | Antenna Type | VHF/UHF Antenna |
| | FM Transmitter Frequency | 88.1Mhz ~ 90.1Mhz |
| Remote Controller | Range(Max.) | 7 meter |