

9" ROOF MOUNT 16:9 MONITOR with INTEGRATED DVD

I N S T R U C T I O N S



Before operating the unit, please read these instructions carefully.

General Information

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GENERAL INFORMATION

WELCOME

Thank you for your purchase of this Roof Mount Monitor with integrated DVD. Prior to operating this unit, please read this instruction manual and retain it for future references.

PRECAUTIONS

To avoid serious damage to the unit, to the car and/or to yourself, you should follow the instructions in this manual.

- * Should there be a need to replace a burnt fuse, turn off the unit and disconnect all power supply. Use only the correct rating fuse to avoid electrical damage to the unit.
- * During operation, if the unit should over-heat or malfunction, switch off the unit and see your dealer. Do not disassemble the unit. There are no user-serviceable parts in this unit.

To avoid serious injury to yourself and prevent damage to the LCD panel, please observe the following:

- * Do not drop the LCD panel or subject it to direct impact. Impact will cause damage to the LCD panel and/or to the back light element.
- * Should the LCD panel brake or leak fluid, please avoid all contact with the unit. If you should come into contact with the leaked fluid, please wash the affected area thoroughly with water and seek immediate medical attention.

This unit is designed using high quality electronic components and manufactured under a stringent quality control system. This unit will provide you with numerous hours of quality performance if utilized as specified. Please follow these maintenance procedures:

- * The battery of the remote control unit has an estimated life cycle of six (6) months. To ensure proper functionality, replace the battery on a timely manner.
- * Do not use any chemical solvent, cleaning agent or corrosive detergent when wiping the display. If chemicals are used, you will cause irreversible damage to the TFT screen. A soft, damp, lens cleaning cloth should be used to wipe the screen of fingerprints and debris.
- * Do not drop the monitor or impact it with hard objects. This may cause permanent irreversible damage to the LCD panel and/or the back light element.
- * When operating the unit, avoid contact with the LCD panel.
- * Prevent a metal or foreign object being locked between the LCD screen and the enclosure. Objects may impair smooth running of the tray and may cause electrical problems.

- * Keep unit away from equipment with strong magnets such as large loudspeakers.
- * To prevent malfunction, do not play discs other than the ones listed below.
Examples: DVD audio discs, DVD-ROMs, CD-ROMs, Photo CDs and DVDs with region numbers other than this player's region number.

IMPORTANT NOTES:

- * When the unit is used in conjunction with a Radio/TV tuner, please assure that the receiver is manufactured to receive television broadcast signals that are transmitted via terrestrial radio waves. Reception quality will change and vary according to geographic location and climatic control.
- * We strongly advise for the display screen to be installed at a location, where the attentiveness of the driver will not be affected while driving.
- * Avoid installing the monitor at a location, where it will be under direct sunlight or a hot air vent. Operating temperature of the unit is from 32-92 degrees Fahrenheit. If the internal temperature of the vehicle is higher than the normal operating temperature, please allow cool off periods for the unit.
- * Install the unit at a dry location, where it is away from condensation.
- * Only correct size of fasteners or installation cables should be used during installation. Failure to do so may cause a mechanical failure and create a fire hazard.
- * When in doubt, the authorized dealer should be contacted.
- * To avoid electrical shock to yourself and others, do not disassemble the unit, for there are no user-serviceable parts within.
- * The picture quality of this LCD unit depends strictly on its installed location. To achieve the best picture quality, adjust the brightness control or viewing angle of the unit until the optimum level is reached.

NOTICE OF INTENDED USE

THIS VIDEO ENTERTAINMENT SYSTEM IS DESIGNED TO ENABLE VIEWING OF VIDEO RECORDINGS ONLY FOR REAR-SEAT OCCUPANTS.

MOBILE VIDEO PRODUCTS ARE NOT INTENDED FOR VIEWING BY THE DRIVER WHILE THE VEHICLE IS IN MOTION. SUCH USE MAY DISTRACT THE DRIVER OR INTERFERE WITH THE DRIVER'S SAFE OPERATION OF THE VEHICLE, AND THUS RESULT IN SERIOUS INJURY OR DEATH. SUCH USE MAY ALSO VIOLATE STATE LAW.

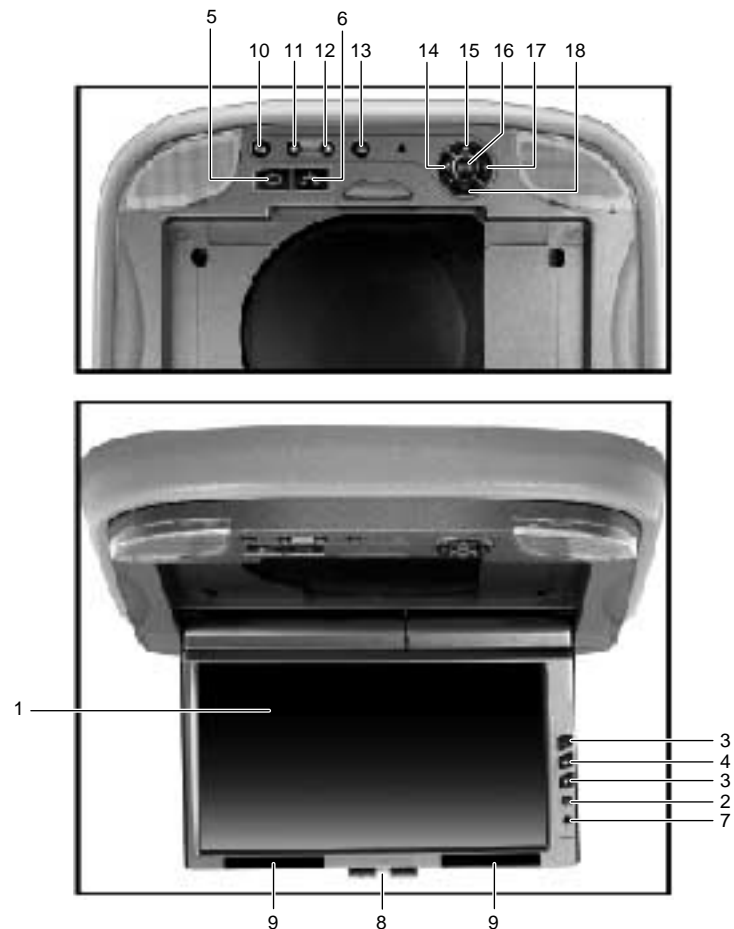
THE MANUFACTURER DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED USE.

1. INSTALLATION GUIDE:

1.1 Precautions:

1. This unit should be installed by a qualified service technician.
2. This product is designed to operate with +12V DC, negative ground battery system.
3. Disconnect the ground wire from the battery terminal prior to connecting the unit to the electrical system.
4. The wiring from some other products or accessories might bear similar color code as this product; however, they might be of other function. Please refer to the electrical connection diagrams of this product prior to installing to avoid improper connection.
5. Use proper installation and fastening materials to prevent electrical damage to the unit.
6. Do not connect the yellow wire and red wire together of this product directly to the +12V. Connect the red wire of this product to the ACC of the ignition key switch and yellow wire to +12V. Failure to do so may result in permanent drainage of the battery charge.
7. Only supplied accessories should be used to avoid damage to the unit during installation.
8. Ensure that the display monitor is suitably installed at a location, such that it will not obstruct the rear view mirror and/or the air condition vents.
9. Do not install this unit at a declining angle exceeding 30° degrees.
10. Do not install screws over the plane surface, which may affect monitor eject or retract function.

2. FUNCTION KEYS:



DISPLAY FUNCTION KEYS:

1. LCD Display
2. VIDEO Select Button ()
3. UP/DOWN Button ()
4. VIDEO MENU Button ()

UNIT FUNCTION KEYS:

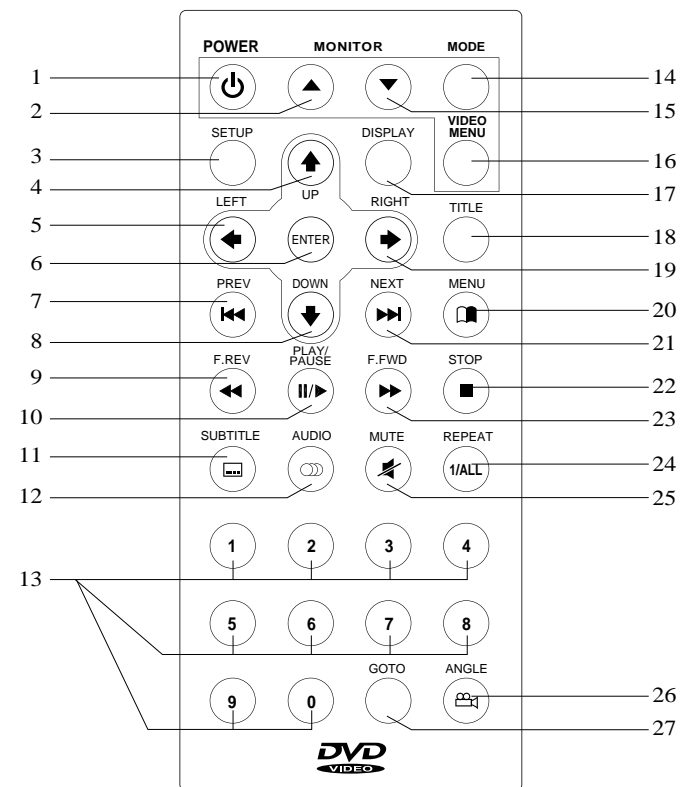
5. Door Light ON / OFF Button ()
6. Courtesy Light ()
7. IR Sensor
8. OPEN/CLOSE Button
9. IR Transmitter

DVD FUNCTION KEYS:

10. PLAY/PAUSE Button ()
11. STOP Button ()
12. DVD MENU Button ()
13. AUDIO Button ()
14. LEFT Button ()
15. UP Button ()
16. ENTER Button ()
17. RIGHT Button ()
18. DOWN Button ()

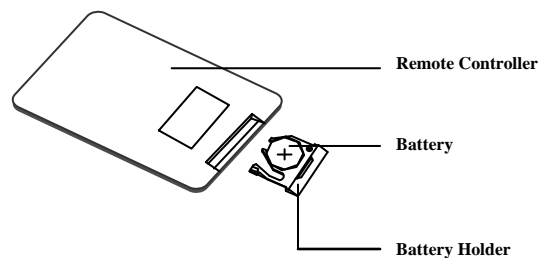
3. REMOTE CONTROL UNITS:

3.1 Frequently Used Buttons:



- | | |
|---------------------------------------|------------------------------------|
| 1. POWER Button | 13. NUMERIC Buttons (DVD) |
| 2. UP Button (Display) | 14. MODE Button (Display) |
| 3. DVD SETUP Button (DVD) | 15. DOWN Button (Display) |
| 4. UP CURSOR Button (DVD) | 16. VIDEO MENU Button (Display) |
| 5. LEFT CURSOR Button (DVD) | 17. DISPLAY Button (DVD) |
| 6. ENTER Button (DVD) | 18. TITLE Button (DVD) |
| 7. PREVIOUS/REVERSE SKIP Button (DVD) | 19. RIGHT CURSOR Button (DVD) |
| 8. DOWN CURSOR Button (DVD) | 20. MENU/PBC Button (DVD) |
| 9. REVERSE SCAN Button (DVD) | 21. NEXT/FORWARD SKIP Button (DVD) |
| 10. PLAY/PAUSE Button (DVD) | 22. REPEAT Button (DVD) |
| 11. SUBTITLE ON/OFF Button (DVD) | 25. MUTE Button (DVD) |
| 12. AUDIO SELECTION Button (DVD) | 26. ANGLE Button (DVD) |
| | 27. GO TO Button (DVD) |

3.2 Replacement of battery:



1. Use a small coin to open the battery clip.
2. Remove old battery and replace it with the positive “+” sign facing upward.
3. Push battery clip into compartment until it is locked.

3.3 Precautions:

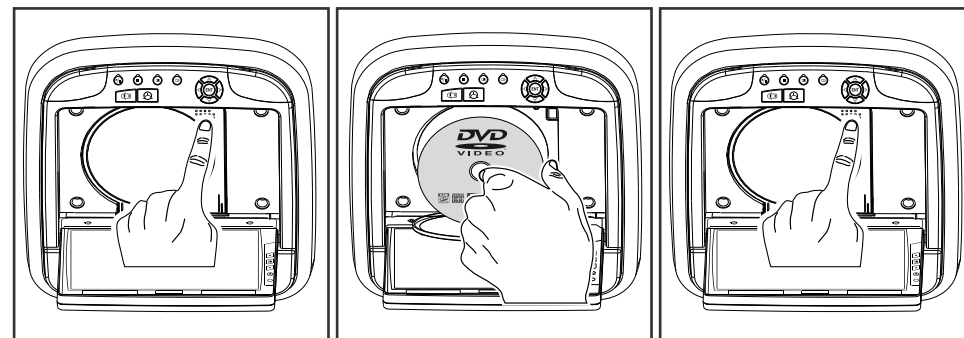
1. Properly dispose of used battery.
2. Do not misuse battery by shorting the positive “+” and negative “-” terminal or put it into fire. Overheating may cause the battery to explode and cause a fire hazard.
3. Remove the used battery from the compartment to prevent leakage.
4. To avoid accidents, prevent children from playing with the battery.

4. LOADING AND UNLOADING DISC:

You can use single side and dual layer DVD, VCD, CD-audio & CD-R compatible 12cm disc.

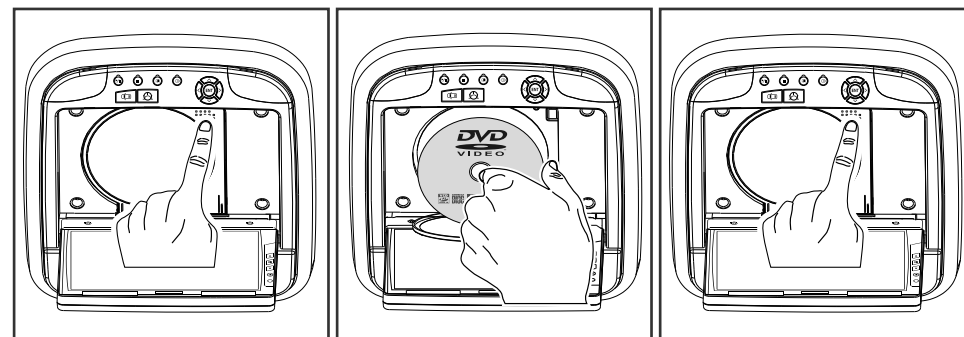
4.1 Loading Discs:

1. Press " " to open the case
2. Load with the recorded side (the shiny side) facing up. With double-sided discs, load with the side you want to watch facing up. Ensure that disc is seated properly before pushing tray back into its locking position.
3. Push to close the case.



4.2 Unloading Disc:

1. Press " " to open the case
2. Remove the disc from the desk. (Avoid touching the recorded surface)
3. Push to close the case, until you hear a click sound from the mechanism.



5. OPERATING THE MONITOR:


5.1 OPEN/CLOSE/POWER ON THE DISPLAY MONITOR

To open/close the display monitor, push & pull the "OPEN/CLOSE" button to the desired position.


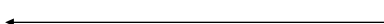
5.2 SIGNAL SOURCE (MODE)

Press remote (MODE) button or "VIDEO Select Source" () button to select the input signal AV1, AV2 or DVD.

5.3 FUNCTION MODE (MENU)

Press remote "VIDEO MENU" button or monitor "MENU" () button to activate the screen set up sequence as follows:

COLOR  BRIGHT  TINT  DIMMER  FORMAT

 RESET 

COLOR: Color adjustment

BRIGHT: Brightness setting



TINT: Adjustment to color saturation

DIMMER: ON/OFF

FORMAT: Format Selection

RESET: Reset COLOR, BRIGHTNESS, and TINT to factory settings.

Once the desired setting is selected, press the cursor key to the desired setting. If a key is not activated within 5 seconds, this function mode will turn off.

Once the correct function is selected, press the cursor key i.e.  or  to the desired setting. If no key is depressed, this function mode will turn OFF in about 5 seconds.

5.4 DOOR LIGHT ON/OFF ()

Engage this switch to have the door open switch activate the dome lights.

Note: This function can be operational only when the Gray wire of the dome light assembly is connected to the door switch.

5.5 COURTESY LIGHT ON/OFF ()

Activate this switch to "ON/OFF" to activate the dome light.

6. BASIC FUNCTIONS:





6.1 DVD playback (DVD)

(1) Select video source (DVD).

(2) Load a disc into the unit.

(3) DVD playback commences.

- The disc will start to play if the disc does not have any menu recorded on it.
- If the disc has one or more titles recorded on it, a menu screen will appear on the TV monitor.


(4) Press  /  /  /  to select the preferred title.

(5) Press the "ENTER" button, the selected item will now start playing.

(6) Return to the menu screen.

Press the DVD "MENU" button, the menu screen will appear.



TITLE MENU
1.Fish
2.Bird
3.Dog

After operation, press "POWER" () button to put the unit into standby mode.


Note:

When "WRONG REGION" appears, it means that the corresponding operation is prohibited either by the player or by the disc.

6.2 Audio CD playback (CD)

(1) Press the remote control's "POWER" () button or the monitor "POWER" () button to switch on the unit's power.

(2) Insert a disc into the unit.

(3) Press "PLAY/PAUSE" () button to start the playback of the disc.

6.3.1 Fast forward or reverse (DVD/MP3/CD)

(1) Press the "FF" () button during playback.

Each time this button is pressed, the unit will go into a rapid advance playback mode. The OSD will be shown on the TV screen, depending on the speed of the playback selected.

• CD playback


FF 1X → FF 2X → FF 3X → FF 4X → PLAY

Press "PLAY" button, the speed will go back to standard.

• MP3/DVD playback

FF 2X → FF 4X → FF 6X → FF 8X → PLAY

Press "PLAY" button, the speed will go back to standard.

(2) Press the FR () button during playback.

Each time this button is pressed, the unit will go into a rapid reverse playback mode. The OSD will be shown on the TV screen, depending on the speed of the playback selected.

• CD playback

FR 1X → FR 2X → FR 3X → FR 4X → PLAY

Press PLAY button, the speed will go back to standard.

- **DVD playback**
FR 2X → FR 4X → FR 6X → FR 8X → PLAY
Press PLAY button, the speed will go back to standard.

6.3.2 Next track or previous track (DVD/MP3/CD)

Press (►►) during playback

MP3, Audio CD

The player will skip forward to the next track each time the button is pressed. "NEXT" will be displayed on the TV screen.

DVD

The player will skip forward to the next title/ chapter each time the button is pressed.

"TITLE aa/bb CHAPTER cc/ddd" will be displayed on the TV screen.

WHERE aa:Current TITLE
bb:Total TITLE
cc:Current CHAPTER
ddd:Total CHAPTER

Press (◀◀) during playback

MP3, Audio CD

The player will skip to the beginning of the previous track each time the button is pressed. "PREVIOUS" will be displayed on the TV screen.

DVD

The player will skip to the beginning of the previous chapter each time the button is pressed.

6.4 Play / Pause (DVD/MP3/CD)

Press the "PLAY/PAUSE" (►/||) button, during playback. The player will be placed in the pause mode.
Press the "PLAY/PAUSE" (►/||) button again, the player will return to normal playback.

6.5 Stop (DVD/MP3/CD)

- (1) During Audio CD playback, when "STOP" (■) button is pressed, the CD playback will stop.
- (2) During DVD playback, when the "STOP" (■) button is pressed, press "PLAY to continue". The player records the point where the "STOP" (■) button is pressed (Resume playback function).
Press the "PLAY/PAUSE" (►/||) button again, the play will resume from this point.

If "STOP" (■) button is pressed. "STOP" will appear and the resume playback function will be cleared.

Note:

Resume playback function is not available for Audio CDs.

6.6 Search function "GO TO" (DVD/MP3/CD)

Search function enables you to locate a specific location by entering the time/track/chapter or title.

Audio CD/MP3

When "GO TO" button is pressed the following will be displayed:

GOTO _ _ ; G _ _

Use the numeric keys to enter the desired disc time and pressing the ENTER button will cause the player to start playing at the selected time.

If you are not in search mode, you may use the numeric keys to enter the desired track; the player will commence at the selected track.

DVD

When "SEARCH" button is pressed the following will be displayed:

(1) TITLE xx/xx CHAPTER xxx/xxx

(2) TITLE xx/xx xx;Gxx;Gxx

Use the numeric keys to enter the desired title or chapter or chapter time and pressing the "ENTER" button will cause the player to start playing at the selected title, chapter or chapter time.

If you are not in search mode, you may use the numeric keys to enter the desired chapter; the player will commence at the selected chapter.

6.7 Advanced playback (DVD/MP3/CD)

6.7.1 Repeat mode

For Audio CD/ MP3

When REPEAT button is pressed,


REP ONE = The current track will be repeated
FOLDER REP = The current folder will be repeated
FOLDER = All the folders will be repeated

For DVD
When REPEAT button is pressed,

- CHAPTER REPEATION = The current chapter will be repeated
- TITLE REPEAT = The current title will be repeated
- REPEAT OFF = Repeat mode will be switched off

6.7.2 Camera angle (DVD)

Some DVD discs may contain scenes, which have more than one viewing angle. For these discs, the same scene can be viewed from a different angle by using the "ANGLE" button.

- (1) During DVD playback, press the "ANGLE" button.
"  x/y" will appear, x represents the current camera angle, and y represents the total number available camera angles.
- (2) Press the "ANGLE" button until the preferred angle is selected. The ANGLE selection will cycle through all available camera angle.

Note:
This function will only work on discs where multiple camera angles have been recorded.

6.7.3 Audio function (DVD)

The audio function works only for discs that have multiple audio soundtracks.



During DVD playback, press the AUDIO button. "AUDIO x/y" will appear, x represents the current audio stream and y represents the total available audio streams. Press the "AUDIO" button until the preferred audio stream is selected. The "AUDIO" selection will cycle through all available audio streams.

6.7.4 Subtitle (DVD)

During DVD playback, you may change the subtitle language from the one selected at the initial setting to a different language, if available.

- (1) Pressing "SUBTITLE ON/OFF" button, the following will appear.







- (1) During DVD playback and SUBTITLE ON, press the "SUBTITLE" button.
"SUBTITLE x/y" will appear, x represents the current subtitle and y represents the total available subtitle. Press the "SUBTITLE" button until the preferred subtitle is selected. The "SUBTITLE" selection will cycle through all available subtitles.

Note:

- (1) The "SUBTITLE" works only for discs that have multiple subtitle.
- (2) In some cases, the subtitle will not changed immediately to the one selected.





6.7.5 DVD menu (DVD)

Most DVD discs have unique menu structures call DVD menu. The DVD menu's contents and operation may differ from disc to disc.

- (1) During DVD playback, press the "MENU" button. The DVD menu available on the disc will be displayed.
- (2) Use  /  /  /  to select the preferred item or use the numeric buttons(s) to make a selection.
- (3) Press "ENTER" button, the selected item will start playing.

6.7.6 Title menu (DVD)

Some DVD discs may have more than one title. If the disc has a title menu recorded on it, the TITLE button can be used to access it.

- (1) During DVD playback, press the "TITLE" button.
A list of the titles may be displayed.
- (2) Use  /  /  /  to select the preferred item.
- (3) Press "ENTER" button, the selected title will start playing.

6.7.7 Display function (DVD/MP3/CD)

The display function enables you to view the status, current title number, track number and the total playing time of the disc on the TV screen.

Audio CD

When the display key is pressed, the following OSD will be shown.

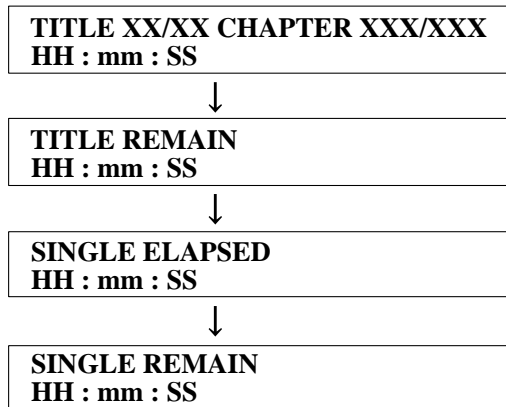
	Current Track	Total Tracks	Time
SINGLE ELAPSED	01/15	01 : 40	
SINGLE REMAIN	01/15	02 : 39	
TOTAL ELAPSED	01/15	01 : 40	
TOTAL REMAIN	01/15	42 : 19	

MP3

SINGLE ELAPSED	00 : 00 : 15
SINGLE REMAIN	00 : 02 : 37

DVD

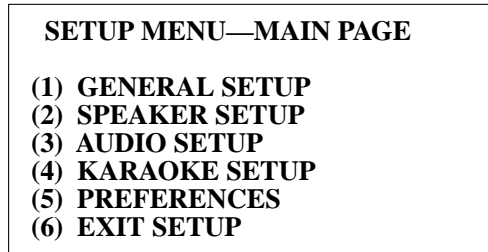
When the display key is pressed, the following OSD will be shown.



6.7.8 Setup menu (DVD)

When the player is in stop mode, pressing SETUP button will allow you to modify some of the player's basic settings.

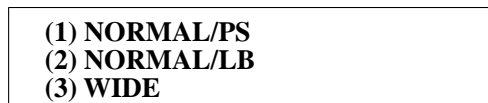
(A) During STOP, press "SETUP" button, the setup menu will appear as below.



(B) GENERAL SETUP

USE "UP/DOWN" BUTTON to select "GENERAL SETUP" and press "ENTER" button. The display and the options are as following.

(b-1) TV DISPLAY



(b-2) PIC MODE



(b-3) ANGLE MARK



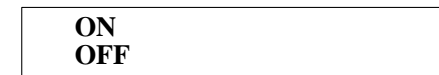
(b-4) OSD LANG



(b-5) CAPTIONS



(b-6) SCR SAVER



(b-7) VIDEO OUTPUT



(C) SPEAKER SETUP

(c-1) DOWNMIX \downarrow (1) LT/RT
 \downarrow (2) STEREO
 \downarrow (3) OFF

(c-2) CENTER



(c-3) REAR



(c-4) SUBWOUFER



(c-5) CNTR DELAY

(c-6) REAR DELAY

(c-6) **REAR DELAY**

ON
OFF

(D) **AUDIO SETUP**

(d-1) **AUDIO OUT**

ANALOG
SPDIF/RAW
SPDIF/PCM)

(d-2) **OP MODE**

LINE OUT
RF REMOD

(d-3) **DUAL MONO**

STERO
L-MONO
R-MONO
MIX-MONO

(d-5) **DYNAMIC**

FULL
6/8
4/8
2/8
OFF

(d-6) **PRO LOGIC**

OFF
ON
AUTO

(d-7) **LPCM OUTPUT**

LPCM 48K
LPCM 96K

(d-8) **MAIN PAGE**

(E) **KARAOKE SETUP**

(e-1) **KARAOKE MOVE**

OFF
KARAOKE

(e-2) **MAIN PAGE**

(F) **PREFERENCES PAGE**

- (f-1) **AUDIO** — (1) **ENGLISH**
- (2) **FRENCH**
- (3) **SPANISH**
- (4) **CHINESE**
- (5) **JAPANESE**

- (f-2) **SUBTITLE** — (1) **ENGLISH**
- (2) **FRENCH**
- (3) **SPANISH**
- (4) **CHINESE**
- (5) **JAPANESE**
- (6) **OFF** (e-3) **DISC MENU**— (1) **ENGLISH**
- (2) **FRENCE**
- (3) **SPANISH**
- (4) **CHINESE**
- (5) **JAPANESE**
- (6) **OFF**

- (f-4) **LOCALE** — (1) **CHIM**
- (2) **FRENCH**
- (3) **HONG KONG**
- (4) **JAPAN**
- (5) **TAIWAN**
- (6) **GBR**
- (7) **USA**

(f-5) **PARENTAL**— Use "UP/DOWN" buttons to select the PARENTAL item, then press "ENTER". The player will request for parental password. The original password setting is "1234".

1	G
2	
3	PG
4	PG 13
5	
6	PG-R
7	NC-17
8	ADULT
	NO PARENTAL

(f-6) **PASSWORD** — Use the numeric keys to enter the password. To change the password, the original password "1234" is required.

(f-7) **DEFAULTS** — **RESET**

(f-8) **SMART NAV (FOR MP3 ONLY)** — (1) **NO MENU**
(2) **WITH MENU**

(f-9) **MAIN PAGE** — **GO BACK TO THE MAIN PAGE**

(G) **EXIT SETUP**

7. REGION MANAGEMENT INFORMATION:

This DVD/CD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this player, this player will not be able to play the DVD disc.

This DVD/CD player is set to work only in a particular world region as labeled on the player.

Region Number:Country under the Region

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

8. ACCESSORIES SUPPLIED:

Item	Item Description	Quantity
1	Metal plate	1
2	Adaptor	1
3	Fastener screws, (B4 x 6)	6
4	Fastener screws, (B4 x 10)	6
5	Remote controller	1
6	Operating manual	1
7	Power supply cable assembly, 4P, 600mm #18	1
8	Interconnecting cable assembly, doom light	1
9	Source Cable MD 9 pin-13pin	1

9. TECHNICAL SPECIFICATIONS:

Type	Roof Mount Color Display Monitor
Display System	9-inch Active Matrix Color TFT LCD NTSC / PAL Auto Switch
Display Format	336,960 pixels
Aspect Ratio	16 : 9
Resolution	336,960 dots / 480 (W) x 234 (H) dots x 3 RGB
Active Area	198 (W) x 111 (H) mm
Back Light	10,000 hours normal operation
Mechanism	Manual Open / Close
Display Angle	Horizontal: Up/Down < 110°
Source	Composite video input x 2 Composite video output x 1 Audio L/R input x 2 Audio L/R output x 1
Wireless Audio	Infrared audio transmitter (Support IR receiver stereo head phone, L-channel: 2.3MHz / R-channel: 2.8MHz) Effective listening angle: 30° Effective range: 4 meter
Dome Light	3W x 2 with door sensor connection
Operating Voltage	DC 11~16V
Operating Current	1.7A, Typical
Operating Temperature	0°C to 60°C

All specifications are subjected to change without prior notification

10. SPECIFICATIONS:

GENERAL

Power Supply : 14V DC Typical
 Current Consumption : 1.7 A Typical
 Remote control : Infrared remote
 Mounting : Roof mounting
 Dimension (WxDxH) : W 319 mm x D 261 mm x H 50 mm
 Weight : 1.8kg

AUDIO

Audio Characteristic : 2-Channel Analog
 Analog Output : 1.8V/ 10 kohm load (1kHz)
 Analog input : 1.8V/ 600 ohm load (1kHz)
 Frequency Response : 20Hz-20kHz
 S/N Ratio : >=70dB
 Dynamic Range : >=60dB
 Distortion : <=0.4%

VIDEO

DVD Video

Video decompression : MPEG-2(ISO/IEC-13818), MPEG-1
 Disc format : DVD, CD, MP3, CD-R, C-RW, SVCD

Video Output : 1.0Vpp/75 ohm
 Video Input : 1.0Vpp/75 ohm

CONNECTORS

Video output : Composite Video Output x1
 Audio output : Analog output (L/R) x1
 Video input : Composite Video input x 2
 Audio input : Analog input (L/R) x 2
 Power connector : Power supply input