iCARTECH



DVD/CD/VCD/MP3/WMA/SD/MMC/USB PLAYER BLUETOOTH/TV/GPS WITH FM/MW TUNER

Operation Instructions

aurora GX730E

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We are constantly working to improve our documentation. Should you have comments, corrections or suggestions about our Documentation, please send us an email to info@icar-tech.de



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www.icar-tech.de

Warnings

1. Only connect this unit to a 12V DC power supply with negative grounding.



2. Never install this unit where the operation for safety driving is restrained.



 Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except using the rear view video camera.



 Never expose this unit, amplifier, speakers to moisture or water to prevent electronic sparks or fires.



 Please don't change the fuse in the power cord without professional guidance, improper fuse may cause damage to this using unit or even cause fire.



 Please power off this unit at once and send it back to the after-sales service center or the dealer / distributor you purchased from if one of the following symptoms is found:



- (a) No audio output;
- (b) No image output;
- (c) Water or other obstacle enters the unit;
- (d) Smoking;
- (e) Peculiar smell.
- To ensure safe driving, please adjust the volume to a safe and comfort level in case of emergency situations.

Precautions

- Never disassemble or adjust the unit without any professional guide. For details, please consult any professional car shop / dealer for inquiry.
- If the front panel or TFT monitor is squalid, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may result in scratching or decoloration to the applicant.
- If any abnormal behavior of the unit is found, please refer to trouble shooting guide of this manual. If no relevant information is found, please press the [RESET] key on the front panel to resume factory default.
- 4. If you have parked the car in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.
- 5. Using in-car heater in low temperature environment may result in beads coagulate inside the unit, DO NOT use the unit in this situation, eject the disc and wipe off the bead on the disc. If the unit still doesn't work after a few hours, please contact with after-sales service center.
- No fierce impact to the LCD monitor when it is in open position for preventing the damage to any mechanisms inside.
- To prevent the damage to the screen, avoid touching it with sharp objects.
- The monitor employs auto motorizing mechanism, please don't push, pull, or swivel the monitor manually to prevent damage to the core mechanism.
- To provide a clear demonstration and an alternative for easy understanding to the operation of this unit, graphic illustrations areused.However, these illustrations are some different from the actual images displayed on the screen.

- 10.During operating the unit, " (" will display if the current operation is not available or illegal.
- Operate the unit correctly according to this manual to prevent unnecessary problem. The guarantee won't be valid if the problem is caused by inappropriate operation.

Declaration

This product incorporates copyright protection technology that is protected by U.S patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision.

Reverse engineering or disassembly is prohibited.

Contents

Before using
Front panel 1
Remote Control 2
Basic operations
Power on / off
Mute 4
Volume adjustment4
Open SOURCE MENU 4
Playing source selection4
Using the TFT Monitor4
Reset the unit 4
RDS operations
PTY function5
Program Service (PS)5
CT (Clock Time)
RT (Radio Text)5
Radio mode
Select radio as playing source5
Select one radio band5
Auto tuning5
Manual tuning5
Auto save
Manual save6
Preview scan6
Recall the stored stations6
Local seeking6
-
Disc mode
Disc mode Insert a disc6
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc mode Insert a disc
Disc modeInsert a disc.6Eject the disc.6Touch screen controls6Onscreen control buttons7Suspend playback.8Stop playback8Display file list8Fast playback.8Previous / next8Change folder.8Repeat playback8Repeat A-B8Random playback.8Intro playback.8Direct search9
Disc modeInsert a disc.6Eject the disc.6Touch screen controls6Onscreen control buttons7Suspend playback8Stop playback8Display file list8Fast playback8Previous / next8Change folder.8Repeat playback8Repeat A-B8Random playback8Direct search9GOTO search9
Disc mode Insert a disc. 6 Eject the disc. 6 Touch screen controls 6 Onscreen control buttons 7 Suspend playback 8 Stop playback 8 Display file list 8 Fast playback 8 Change folder 8 Repeat playback 8 Random playback 8 Random playback 8 Direct search 9 GOTO search 9 MENU and TITLE 9
Disc modeInsert a disc
Disc modeInsert a disc
Disc mode Insert a disc. 6 Eject the disc. 6 Touch screen controls 6 Onscreen control buttons 7 Suspend playback 8 Stop playback 8 Pisplay file list 8 Fast playback 8 Previous / next 8 Change folder 8 Repeat playback 8 Repeat A-B 8 Random playback 8 Direct search 9 GOTO search 9 MENU and TITLE 9 Select subtitle language 9 Select audio channel 9
Disc mode Insert a disc. 6 Eject the disc. 6 Touch screen controls 6 Onscreen control buttons 7 Suspend playback 8 Stop playback 8 Pisplay file list 8 Fast playback 8 Previous / next 8 Change folder 8 Repeat playback 8 Repeat A-B 8 Random playback 8 Direct search 9 GOTO search 9 MENU and TITLE 9 Select subtitle language 9 Select audio channel 9 PBC function 9
Disc mode Insert a disc. 6 Eject the disc. 6 Touch screen controls 6 Onscreen control buttons 7 Suspend playback 8 Stop playback 8 Display file list 8 Fast playback 8 Previous / next 8 Change folder 8 Repeat playback 8 Repeat A-B 8 Random playback 8 Direct search 9 GOTO search 9 MENU and TITLE 9 Select subtitle language 9 Select audio channel 9 PBC function 9 Zoom in/out 10
Disc modeInsert a disc.6Eject the disc.6Touch screen controls6Onscreen control buttons7Suspend playback8Stop playback8Display file list8Fast playback8Previous / next8Change folder8Repeat playback8Repeat A-B8Random playback8Direct search9GOTO search9MENU and TITLE9Select subtitle language9Select audio channel9PBC function9Zoom in/out10Rotate picture10
Disc modeInsert a disc.6Eject the disc.6Touch screen controls6Onscreen control buttons7Suspend playback8Stop playback8Display file list8Fast playback8Change folder8Repeat playback8Repeat playback8Repeat playback8Repeat A-B8Random playback8Intro playback8Direct search9GOTO search9MENU and TITLE9Select subtitle language9Select subtitle language9Select audio channel9PBC function9Zoom in/out10Rotate picture10Playback information10
Disc mode Insert a disc. 6 Eject the disc. 6 Touch screen controls 6 Onscreen control buttons 7 Suspend playback 8 Stop playback 8 Display file list 8 Fast playback 8 Change folder 8 Repeat playback 8 Repeat playback 8 Repeat A-B 8 Random playback 8 Intro playback 8 Direct search 9 GOTO search 9 MENU and TITLE 9 Select subtitle language 9 Select subtitle language 9 Select audio channel 9 PBC function 9 Zoom in/out 10 Rotate picture 10 Playback information 10 Storte picture 10

Using the touch screen controls	11
Onscreen control buttons	11
Stop playback temporarily	11
Stop playback entirely	11
Display file list	11
East forward/East reverse	11
Play the next or previous file	
Repeat playback	
Repeat playback	
Intro playback	 11
Socreb for a particular file	 11
	۱۱ ۱۸
GOTO search	
Zoom in/out	11
Rotate picture	11
Select picture slide mode	11
Playback information display	11
Bluetooth mode	. 12
TV mode	. 13
Other modes	
AUX	. 14
Camera	. 14
Navigation	. 14
SWC	. 14
Setup	
Setup procedures	. 15
General	. 15
Language	. 15
Audio	. 15
Bluetooth	. 15
Rating	. 16
Hardware	. 16
P.VOL	. 16
TS CAL	. 16
EQ	. 17
Troubleshooting	. 18
Device connections	
Notes of connection	. 20
Control Cables	20
Parking Brake Cable Connections	21
Reverse Driving Cable Connections	21
Installation and uninstall	. – .
Notes of installation	22
Linit Installation	22
Trim Ring installation	23
Uninstall	23
Specifications	. 20
Annendix	
Region Code	25
Cautions of disc using	25
Wiring Diagram	25 25
	. 20

Before using

Front panel





- 1. Eject disc
- 2. Reset the unit
- 3. [VOL] Knob: Adjust volume

Play / Pause(short press)

- 4. [SRC/ 🕁] Key:Switch to the current source and the main menu
- 5. [MUTE] Key: Mute audio outputs
- 6. [TILT+] Knob: Increase the display angle
- 7. [PIC] Key: Adjust the bright the contrast of the TFT monitor
- 8. [TILT-] Knob: Decrease the display angle
- 9. [OPEN/CLOSE] Key: Open / Close the TFT monitor
- 10.USB Slot
- 11. AUX IN jack
- 12.Eject disc
- 13.Disc slot

Before using

Remote Control



Note:

Your remote control may differ slightly from the one pictured here. The above diagram is for illustrative purpose only.

- 1. [SRC]Key:select playing source
- 2. [EJECT]Key: Eject disc
- 3. [AUDIO] Key: Select DVD dialogue language
- 4. [VOL+/-] Key: Adjust volume
- 5. [ZOOM] Key: Image zoom in/out
- 6. [II► /BAND] Key: Select radio band
- 7. [WIDE] Key: Change display mode
- [PRESET ▲ / ▼] Key: Select preset radio station
- 9. [EQ] Key: Enter/Exit the EQ setting
- 10.[GOTO/ 🖍] Key: GOTO search/Call
- 11.[OPEN/CLOSE] Key: Open / Close the TFT monitor
- 12.[TILT ネ / ➤] Key: Adjusting display tilting angle
- 13.[REPT A-B] Key: A-B repeat
- 14.[REPT] Key: Repeat playback
- 15.[MUTE] Key: Mute audio outputs
- 16.[POWER] Key: Unit power
- 17.[SUBTITLE] Key: Select DVD subtitle language
- 18.[ANGLE] Key: Select view angle
- 19.[MENU] Key: DVD MENU / PBC
- 20.[TILT] Key: DVD TITLE
- 21.[SETUP] Key: Setup menu
- 22.[►►] Key: Fast Forward / Move cursor up
- 23.[►] Key: Auto search / Previous / Move cursor to the left
- 24.[▶/॥] Key: Play / Pause / Enter
- 25.[Intervention of the right
 25.[Intervention of the right
- 26.[PIC] Key: Image setting
- 27.[<-] Key: Fast Reverse/ Move cursor down
- 28.[I/ m] Key: Stop Playback/Hangup
- 29.[DISP] Key: Display information
- 30.[0~9] Key: Numeric keys
- 31.[RDM] Key: Random playback
- 32.[CLEAR] Key: Clear information

Before using

Notes of remote control using

- 1) Aim the remote control at the remote sensor on the unit.
- Remove the battery from the remote control or insert a battery insulator if the battery has not been used for a month or longer.
- DO NOT store the remote control under direct sunlight or in high temperature environment, or it may not function properly.
- 4) The battery can work for 6 months under normal condition. If the remote control can't work, please change the battery.
- 5) Use "button shaped" lithium battery "CR2025" (3V) only.
- 6) DO NOT recharge, disassemble, heat or expose the battery in fire.
- 7) Insert the battery in proper direction according to the (+) and (-) poles.
- 8) Store the battery in a place where children cannot reach to avoid the risk of accident.

Uninstall Battery

Slide out the battery compartment tray at the bottom on the back of the remote control.



Use button-shaped lithium battery "CR2025 (3V)" only. Insert the battery to the battery tray with proper direction according to the (+) and (-) poles.



EN - 3

Basic operations

Power on / off

Press any key on the front panel or the [POWER] key on the remote control to turn on the power under standby mode. The unit goes back to the last status after power on.

Press and hold the [SRC] key on the front panel or press the [POWER] key on the remote control to turn off the power under work mode.

Mute

Press the [MUTE] key on the front panel or remote control to mute the volume from the unit.

Notes:

- Doing the operation above again or adjusting volume will release muting.
- ② Mute icon winks on the TFT during muting.

Volume adjustment

Turn the volume knob on the front panel or press the [VOL] key on the remote control. The adjustable range of volume is 0 to 40.

Open SOURCE MENU

Press the [SRC] key on the front panel or remote control or touch the top left corner of the screen to open the SOURCE MENU. Do the above operation again to return to the original source.

Playing source selection

Open the SOURCE MENU, and then touch the source you desired or select one source by moving the cursor and then confirm.

Notes:

- ① Playing source selection means selecting work mode, such as DVD mode, Radio mode, Camera mode, etc.
- ② When some devices are not ready, they cannot be selected.

Display system time

Press and hold the [DISP] key on the remote control to switch the display information between system time and playing source when the TFT monitor is closed.

Using the TFT Monitor

Open / Close monitor

Press the [OPEN/CLOSE] key on the front panel or remote control topush the display panel out or in.

Change the monitor tilt angle

Due to the inherent character of LCD, you will get different vision impressions when you watch it from different angles.

The display angle of this unit can be changed; hence you can select the best angle where you can get the best vision impression.

Press the [TILT] key on the display panel or the remote control to adjust the tilt angle one step at a time.

Press and hold the [TILT] key on the display panel or the remote control to adjust the tilt angle continuously.

Change aspect ratio

Press the [WIDE] key on the display panel or remote control to adjust the aspect ratio.

Image setting

- (1) Enter image setting mode Press the [PIC] key on the front panel.
- (2) Select one item to adjust
 Press the [▶]/[◄] keys on the remote control.
- (3) Adjust the value Press the [►► I] / [I◄] keys on the remote control.
- (4) Exit image setting mode To exit image setting mode, repeat the first step or stop operation for some seconds.

Reset the unit

If the unit can not work correctly, you should reset the unit by pressingthe [RESET] button on the front panel.

RDS operations

PTY function

PTY is the abbreviation for Program Type which is a code defining the type of program being broadcast (e.g. News or Rock).

Six PTY options will display on the screen. To view more PTY options, touch the scroll bar and arrows on the screen.

When one PTY option is touched (e.g. News), auto search for next available PTY by increasing tuning frequency until the PTY of the next station matches the current. If no matched PTY has been found, the unit will return to the original radio frequency.

Program Service (PS)

Used for receiver displays of an 8 character alpha numeric Program Service name which may use Upper or Lower case characters, e.g. {BBC_4_FM}, {Classic_}.

CT (Clock Time)

Some stations broadcast the time and date within the encoded RDS signal. The clock time is automatically adjusted when 'CT' is set to 'On'.

RT (Radio Text)

When this function is activated, the unit will display short message data transmitted from the provider, such as station information, the name of the current broadcasting song and the artist name.

Radio mode

Select radio as playing source

Open the SOURCE MENU and then touch RADIO.

Select one radio band

Press the [BAND] key on the display panel or remote control or touch the [BAND] icon on the user interface to select one radio band among FM1, FM2, FM3, MW1 and MW2.

Auto tuning

Press the [▶] / [◄] key on the display panel or remote control or touch the [▶] / [I◄] icon on the user interface to seek a higher / lower station.

To stop searching, repeat the operation above or press other keys having radio functions.

Note:

When a station is received, searching stops and the station is played.

If the unit receives a stereo broadcasting, the indicator light of stereo 'ST' on the TFT or LCD display will be lighted.

Manual tuning

During manual tuning, the frequency will be changed in steps.

Press the $[\rightarrow] / [\triangleleft]$ key on remote control or touch the $[\rightarrow] / [\triangleleft]$ icon on the user interface to tune in a higher / lower station.

Touch the numeric keypad icon(\blacksquare) and then touch the numeric buttons to input the radio station frequency numbers.

Auto save

Only stations with sufficient signal strength will be detected and stored in the memory.

When the monitor is closed, press and hold the [AS] key on the display panel.

When the monitor is opened, touch the [AS] icon on the user interface.

To stop auto save, press other keys having radio functions.

Notes:

- After auto save, the previous saved stations will be overwritten.
- The unit has 5 bands, such as FM1, FM2, FM3, MW1, MW2, and Each band can store 6 stations; hence the unit can store 30 stations in all.

EN - 5

Radio mode

Manual save

When one expected radio station has been detected.....

- (1) Press the [MEM] icon on the user interface and the preset menu will be opened.
- (2) Press one preset button among P1~P6.
- (3) If you want to abort, press the [Exit] button.

Preview scan

Preview scan searching is such a process that the searching pauses

when a station is received and then played for 5~10 seconds. After being played, the unit continues the process until the whole band is detected.

When the monitor is closed, press the [AS] key on the display panel.

When the monitor is opened, touch the [PS] icon on the user interface.

To stop the process, press other keys having radio functions.

Recall the stored stations

Press one numeric key among 1 to 6 on the remote control or touch an onscreen station button to select the corresponding stored station.

Local seeking

When LOCAL seeking is on, only those radio stations with strong radio signal could be received.

To open or close LOCAL function, press and hold the volume knob on the front panel.

Notes:

- When the local radio station searching is on, the indicator light 'LOC' lights up; whereas the light goes off.
- ② The number of radio stations that can be received will decrease after the local seeking mode is on.

Disc mode

Insert a disc

Upon inserting a disc, the unit will switch to disc mode automatically.

Notes:

- Please confirm whether there is a disc in the unit before you insert another one.
- ② Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW cannot be played back because of different recording status. Otherwise, the discs without being closed could not be played back.
- ③ About the cautions of disc using, please refer to the appendix.

Eject the disc

Press the [\blacktriangle] key on the front panel or remote control to eject the disc.

Touch screen controls

The touch key areas for DVD playback are outlined below:



- A Return the last menu
- B Display playback information
- C Display onscreen control menu

Onscreen control buttons

Disc type	MP3/WMA	CD	VCD	DVD	MPEG	Picture
	Numeric keypad	Numeric keypad	Numeric keypad	Numeric keypad	Numeric keypad	Numeric keypad
*	Setup menu	Setup menu	Setup menu	Setup menu	Setup menu	Setup menu
**	/	Fast forward	Fast forward	Fast forward	Fast forward	/
	1	Fast rewind	Fast rewind	Fast rewind	Fast rewind	/
144	Previous	Previous	Previous	Previous	Previous	Previous
₩	Next	Next	Next	Next	Next	Next
►/II	Play/Pause	Play/Pause	Play/Pause	Play/Pause	Play/Pause	Play/Pause
•	Stop	Stop	Stop	Stop	Stop	Stop
©1/2 ©2/2	/	/	A second menu	A second menu	A second menu	/
¢Þ	Repeat	Repeat	Repeat	Repeat	Repeat	Repeat
*	Random	Random	Random	Random	Random	/
U	/	/	/	1	/	Rotate
(÷	/	/	Zoom	/	/	Zoom
ıl,ı	EQ setup	EQ setup	EQ setup	EQ setup	EQ setup	EQ setup
РВС	/	/	PBC	/	/	/
A-B	/	1	A-B repeat	A-B repeat	/	/
Back	/	/	Exit menu	Exit menu	Exit menu	Exit menu
AUDIO	1	/	Channel switching	Dialog Language	Dialog Language	/
SUBTITLE	/	/	1	Subtitle Language	Subtitle Language	/
DISP	/	/	Display information	Display information	Display information	Display
MENU	1	/	/	DVD MENU	/	/
TITLE	/	/	/	DVD TITLE	/	/
DIR+	Next folder	/	/	/	/	Next folder
DIR-	Previous folder	/	/	/	/	Previous folder

Suspend playback

Press the $[\mathbf{P}/\mathbf{I}]$ key on the remote control or open the onscreen control buttons menu and then touch the $[\mathbf{P}/\mathbf{I}]$ button.

To resume normal play, repeat the above operation.

Stop playback

To stop playback, press the [I] key on the remote control or open the onscreen control buttons menu and then touch the[I] button.

When the above operation is executed for the first time, the current playback is paused and the break point is memorized and the playback will resume when you start playback again or switch back from other playing sources. The current playback will cancel if the above operation is executed twice and the playback will start over when you start playback again.

Display file list

To display the file list of one recorded disc, stop current playback.

Fast playback

Press the $[\rightarrow]/[\blacktriangleleft]$ key on the remote control repeatedly or open the onscreen control buttons menu and then touch the $[\rightarrow]/[\blacktriangleleft]$ button repeatedly to change the rate of fast forward/fast reverse.

Previous / next

Press the [||4|]/[|>|] key on the display panel or remote control or open the onscreen control buttons menu and then touch the [||4|]/[|>|] button to play the next or previous file.

Change folder

Press the [DIR+]/[DIR-] icon on the user interface (you should stop playback first if a video or picture file is played back) to change folder during the playback of one recorded disc containing more than one folder.

Repeat playback

Press the [RPT] key on the remote control repeatedly or open the onscreen control buttons menu and then touch the [] button repeatedly to alter repeat mode according to the following table.

Disc type	Repeat mode
DVD	Repeat chapter → Repeat title → Repeat off
VCD(PBC off)	Repeat single → Repeat all →Repeat off
CD	Repeat single → Repeat folder →Repeat all→Repeat off
MP3/WMA	Repeat single → Repeat folder →Repeat all→Repeat off
MPEG	Repeat single \rightarrow Repeat folder \rightarrow Repeat all \rightarrow Repeat off
Picture	Repeat single → Repeat folder →Repeat all→Repeat off

Notes:

- When a VCD is played back, this function is prohibited if the PBC is on.
- ② Turning off the power or switching playing source to other modes and back will cancel this function.

Repeat A-B

When a DVD, VCD or CD disc is played back, you can play back the contents between the time points from A to B repeatedly.

Press the [RPT A-B] key on the remote control or open the onscreen control buttons menu and then touch the [RPT A-B] button to set the start point (A) of the repeated section. Do the above operation again to set the end point of the repeated section.

The selected portion will repeat continuously. Do the above operation for the third time to cancel this function.

Random playback

When this function is on, the contents in the disc will be played back randomly.

Press the [RDM] key on the remote control repeatedly or open the onscreen control buttons menu and then touch the [\rightarrow] button repeatedly to alter random playback mode among 'Random on', 'Random off'.

Intro playback

When this function is on, the unit will play back the first 10 seconds of each track of a VCD or CD disc. You can search the file you desired using this function.

Press the [SCN] key on the remote control to activate this function.



Do the above operation again to cancel this function.

Direct search

When a DVD, VCD or CD disc is played back, you can search for a particular chapter / track by pressing the numeric keys of the remote control. For example, if you want to select the 15th track, you should press numerical key [1] and [5].

GOTO search

(1) Enter GOTO search mode Press the [GOTO] key on the remote control to open search menu.

For DVD, you can search according to title, chapter and time.

For VCD, if PBC function is off, you can search according to time; if PBC function is on, you can search according to track, time and Disc time.

For CD, you can search according to track.

For MPEG files, you can search according to track and time.

For record discs containing MP3 and/or JPG files, you can search according to track(file number).

(2) Enter search information

Select items by pressing the direction keys on the remote control and enter search information by pressing the numeric keys, such as title, chapter and time.

(3) Confirm

Press the [Enter] key on the remote control to confirm.

(4) Exit GOTO search mode

Repeat the above operation until the search menu disappeared or touch the [Exit] button on the menu.

MENU and TITLE

This function is only available for the DVD discs having "MENU / TITLE".

Press the [MENU] key on the remote control or open the onscreen control buttons menu and then touch the [MENU] button to open DVD MENU.

You can select audio language, subtitle language and so on for playback.

Press the [TITLE] key on the remote control

or open the onscreen control buttons menu and then touch the [TITLE] button to open DVD TITLE.

You can select a different title for playback.

Select subtitle language

Press the [SUBTITLE] key on the remote control repeatedly or open the onscreen control buttons menu and then touch the [SUBTITLE] button repeatedly to choose a subtitle language.

Select multi-angle views

Press the [ANGLE] key on the remote control repeatedly to choose a shooting angle during the playback of a DVD disc or video file containing multi-angle views.

Select audio channel

For DVD containing multi-language audio files, press the [AUDIO] key on the remote control repeatedly or open the onscreen control buttons menu and then touch the [AUDIO] button repeatedly to change dialogue language.

For VCD and CD, press the [AUDIO] key on the remote control repeatedly or open the onscreen control buttons menu and then touch the [AUDIO] button repeatedly to alter audio channel modes among Left vocal, Right vocal, Mono left, Mono right, Stereo.

Note:

Left channel and right channel cannot work properly if the audio files are not recorded correctly.

PBC function

This function is available for the VCD discs with PBC function (Ver 2.0 or higher). Press the [MENU] key on the remote control to activate this function.

Press again to cancel.

Notes:

- When PBC is on, playback goes back to the track list and starts from the first track.
- When PBC is on, fast motion playback, slow motion playback or skip search is available but repeat playback and searching for a particular chapter or track is prohibited.

If you do the operation of random playback, scan playback or searching playback when PBC is on, PBC will be off automatically.

Zoom in/out

To zoom in/out the image being played, press the [ZOOM] key on the remote control or open the onscreen control buttons and then touch the [\mathfrak{B}_{i}] icon.

Rotate picture

When one picture file is played back, you can rotate the picture to get proper view angle by pressing the [\circlearrowright] icon on the onscreen control buttons.

Playback information

Touch the top center area of TFT LCD when playing back DVD and VCD discs and the playback information will be displayed on the top area of the TFT.

For DVD

0—	DVD Vide	eo
0—	Time	00:00:59/00:00:43
6—	Title	15/30
0 —	Chapter	1/2

6—	Audio	1/1 🗖 6 ch Eng
6-	Subtitle	Off
0—	Angle	1/1
8—	Bitrate	0.000Mbps

- (1) Disc type.
- (2) Elapsed time of the current title.
- (3) DVD Title information. "5/8" indicates that this DVD has 8 titles and the title playing back now is the fifth title.
- (4) DVD Chapter information. "2/16" indicates that current title has 16 chapters and the chapter playing back now is the second chapter.
- (5) Indicates that the subtitle of this DVD has been recorded in 6 languages and the language displayed now is the second, that is English.
- (6) Touch the [SUB TITLE] button repeatedly

- to choose a subtitle language.
- (7) Multi angle.
- (8) Bitrate.

For VCD

- VCD 2.0
 Time 00:00:59/00:00:43
 - Time 00:00:59/00:
- O
 PCB On
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 P
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(1) Disc type.

- (2) Elapsed time of the current track.
- (3) PBC function indicator. "PBC On" indicates that PBC function has been activated.

SD/USB mode

Select SD/USB as playing source

Method 1:





Method 2:

Open the 'SOURCE MENU' and then select 'SD'.

Notes:

- The unit will switch to SD card mode or USB mode after a SD card or USB device has been inserted.
- ② The unit supports hot swap.

Using the touch screen controls

The operation is the same as DVD mode.

Onscreen control buttons

Onscreen control buttons under USB mode are the same as disc mode.

Stop playback temporarily

The operation is the same as disc mode.

Stop playback entirely

The operation is the same as disc mode.

Display file list

The operation is the same as disc mode.

Fast forward/Fast reverse

The operation is the same as disc mode.

Play the next or previous file

The operation is the same as disc mode.

Repeat playback

The operation is the same as disc mode.

Random playback

The operation is the same as disc mode.

Intro playback

The operation is the same as disc mode.

Search for a particular file

The operation is the same as disc mode.

GOTO search

The operation is the same as disc mode.

Zoom in/out

The operation is the same as disc mode.

Rotate picture

The operation is the same as disc mode.

Select picture slide mode

The operation is the same as disc mode.

Playback information display

The operation is the same as disc mode.

Bluetooth mode

Bluetooth is a wireless transmission way for short distance operating at 2.4GHz. The bluetooth module can connect with the mobile phones having bluetooth function. After connecting, you can control your mobile phone through the unit.

As different mobile phones provide different bluetooth functions, so not all of the functions undermentioned are available to different phones. Please read through the operation manual of the mobile phone in use at first.

Select Bluetooth as playing source

Open the SOURCE MENU and then touch BT.

Function icons

The function icons of BT are outlined as below.

Icon	Function	lcon	Function	lcon	Function
()	Pairing	×	Disconnect	Ē	Dial panel
ΎΧ	Setup	Q	Voice transfer	ŷ	Mute
MENU	Menu	3	Ans./Dial	ð	Hangup
►/I	Play/Pause		Stop	₹	Next
144	Previous		Phone mode	5	Music mode

Work modes of Bluetooth module

The bluetooth module has two work modes, which are phone mode and music mode. Touch the mode switch icon to switch to its corresponding mode. Under phone mode, hand-free, call and other phone functions are available. Under music mode, you can enjoy the music played back by your mobile phone through the speakers in your car and you can control the playback.

Phone mode

Pairing

Use this function to establish a connection between the Bluetooth module and your mobile phone.

- ③ Switch the work mode of the Bluetooth module to phone mode, open the SETUP menu and select the Bluetooth sub-menu and then set the 'Bluetooth' option to 'On'.
- ② Turn on the Bluetooth function of your mobile phone and start to search Bluetooth devices.
- ③ After the name of the Bluetooth module

appears on the pairing list on your mobile phone, you should select it. At this time, a pairing code is required. The Bluetooth module will exit pairing mode if there is no pairing instruction from your mobile phone during the pairing time (90s) and 'Phone Pairing Fail' is displayed on the screen.

④ Enter the pairing code (1234 by default) to initiate the pairing process. The paired mobile phone name will display on the screen.

Browse call numbers

The Bluetooth module will download phone book and call records from your mobile phone after pairing.

Touch the [MENU] icon to display the Menu list. There are some options on the menu list, including missed calls, received calls, dialed calls and phone book. When you press one of them, the Bluetooth module will get its corresponding information from your mobile phone.

Make an outgoing call

- I Browse through the Phone book or call records, touch the number you want to dial and then touch the dial icon to make an outgoing call.
- ② Touch the Dial Panel icon to open dial panel and then touch the numeric buttons to input phone numbers. Touch the [Clear] icon to clear the last digit. Touch the hangup icon to clear the entire numbers or end the conversation. Touch the Ans icon to make an outgoing call.

Answer an incoming call

The Bluetooth module will switch to phone mode automatically when there is an incoming call and the incoming call number will be displayed on the screen.

If the 'Auto Answer' option of the 'Bluetooth' submenu under the SETUP MENU is set to 'On', the unit will answer incoming calls automatically, otherwise you should answer them manually.

The call duration will be displayed on the screen after the incoming call has been put through.

Hangup

While talking, press the hangup key on your mobile phone or touch the hangup icon on the screen to end the conversation.



Bluetooth mode

Voice transfer

While talking, touch the 'Voice transfer' icon on the screen to transfer audio from the unit to your mobile phone, and touch again to transfer audio from your mobile phone to the unit.

Note: Some mobile phones will transfer audio from the unit to themselves once the incoming call is answered.

Microphone mute

While talking, press the microphone mute icon on the screen to mute the microphone built in the unit. Under this condition, the one talking over the telephone with you can not hear what you are saying. Touch the mute icon again to resume microphone functionality.

Music mode

Pairing

Before pairing, switch the work mode of the Bluetooth module to music mode. The procedures of pairing under music mode is the same as the phone mode.

A2DP

A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

After pairing, open the audio player of your mobile phone and set the transmit mode to Bluetooth. At this time, the speakers of your mobile phone will close automatically.

To set the transmit mode of mobile phones to Bluetooth, please refer to the user manual or help document of the mobile phone in use or the audio player software because the audio players of different mobile phones vary greatly.

AVRCP

AVRCP is short for Audio/Video Remote Control Profile. The mobile phones supporting this function can control the playback of a Bluetooth audio player.

After pairing, touch the corresponding icon to control current playback, such as Play, Pause, Stop, Previous, Next.

TV mode

Select TV as playing source

Open the SOURCE MENU and then select TV.

Auto search

To search for a higher/lower TV channel, press and hold the [|4|]/[\rightarrow I] key on the display panel or remote control.

Notes:

- To stop auto searching, press other keys having TV functions.
- When a TV channel is received, searching stops and the TV channel is played. If no TV channel is detected, the tuning channel stops at the very beginning channel when the searching process is finished.

Manual search

Press the $[I_{44}]/[I_{5}]$ key repeatedly on the display panel or remote control to change TV channel in steps.

Auto save

Search all TV channels in the whole range and storing the available TV channels automatically.

Press and hold the [>/II] key on the remote control to start auto save.

To stop this process, press any other keys to save TV functions.

Preview scan

Scan the stored TV channels and play each channel for 5 seconds.

Press the [>/"] key on the front panel or remote control to start preview scan. To stop this process, press any other keys having TV functions.

Change TV channel

Play the previous / next stored channel.

To play the previous / next stored TV channel, press the [Up] / [Down] key on the remote control.

Play a particular channel To play a particular TV channel, press the numeric keys of remote control continuously.

Other modes

AUX

External peripheral devices with RCA audio and video outputs can be connected with the unit.

To enter AUX IN mode, open the SOURCE MENU and then touch AUX IN.

Camera

This player is "camera ready". Before accessing any camera features, you must purchase and install a rear video camera. Once the rear camera is connected and operating properly, the CAMERA source mode will become active. While the camera is not installed, the CAMERA option appears gray, indicating the function is not available.

The playing source will change to 'CAMERA' mode automatically when you reverse your car.

Navigation

The suited navigation device can be connected to the unit.

For more details, please refer to <Wiring Diagram >.

To enter [NAVI]mode:

Method 1:





Method 2:

Restore the 'SOURCE MENU' and then select 'NAVI'.

Notes:

- For the operations under navigation mode, please refer to the user manual of the navigation device.
- ⁽²⁾ Touch screen function is available under NAVI mode.

SWC

Press the [SETUP] key on the remote control or touch the setup icon [*] on the user interface, and touch the desired function key of the list to the control button of the SWC.

SWC	KEY 1	 $ \Rightarrow$	MUTE
	KEY 2		VOL-
	KEY 3		SEEK DOWN
	KEY 4		SOURCE
	KEY 5		BAND
	KEY 6		NOLL
	KEY 7		
	KEY 8		

By the setting, you can use the button of the steering wheel to control volume,select track etc.

Setting below:

- To connect your steering wheel control device to the unit.
- Enter the setting menu.
- ③ Touch the anyone key from"KEY 1" to "KEY 8",and the opposite function key turns bright.

for example:

- ① Touch"KEY 1"function;
- ② And long-touch the function key from the car,the screen display: "MUTE"/" VOL+"/" VOL-" /" SEEK DOWN" /"SEEK UP " /" SOURCE" /"BAND" /" NULL"
- ③ Touch the anyone key that you want ,and the setting is success.

Touch the nether left corner of the screen to exit, the setting of the other keys as the same as the above.

Setup

Setup procedures

(1) Enter setup mode

Press the [SETUP] key on the remote control or touch the setup icon [\clubsuit] on the user interface.

The following menu appears after entering the setup mode.

The GENERAL sub-menu is highlighted by default.

SET	TUP	ME	ΕΝι	J	
General	Langu	lage	Αι	udio	Back
Clock M	ode	12H	r		
Clock		11:1	8 A	M	
Tuner Region		Euro	оре		
Веер		Off			
	SET General Clock M Clock Tuner R Beep	SETUP General Langu Clock Mode Clock Tuner Region Beep	SETUP ME General Language Clock Mode 12H Clock 11:1 Tuner Region Euror Beep Off	SETUP MENU General Language Au Clock Wode 12Hr Clock Clock III:18 Au Au Tuner Region Europe Beep	SETUP MENU General Language Audio Clock Mode 12Hr > Clock 11:18 AM Tuner Region Europe > Beep Off >

(2) Select one sub-menu

Press the direction keys on the remote control.

(3) Select one item

Press the [▶] / [◄] key on the remote control to select one item and then press the [▶/II] key to confirm.

(4) Select one value

Press the [\rightarrow] / [\triangleleft] key on the remote control to select one suitable value and then press the [\rightarrow /II] key to confirm.

Note:

All following settings can be done by touching the option directly.

General

 Clock mode 12Hr: the clock displays in the type of 12 hours such as 11:18 AM.

24Hr: the clock displays in the type of 24 hours such as 20:18.

Clock
 Adjust t

Adjust the clock displayed on the top right corner of the TFT screen.

• Tuner Region

The unit provides several radio systems and you can select a correct radio system according to your country.

Beep

On: Background sound of key-press is on. Off: Background sound of key-press is off.

Language

• Language Select one language of system menu display.

Subtitle

Select one subtitle language of DVD disc. *Note:*

If the DVD disc does not contain the selected language, the subtitle will be displayed in default language.

Audio

Select one dialogue language of DVD disc. *Note:*

If the DVD disc does not contain the selected language, the dialogues you listening to will be in default language.

 DVD menu Select one language of DVD MENU display.

Note:

If the DVD disc does not contain the selected language, the DVD MENU will be displayed in default language.

Audio

- Loudness On: Loud mode is on. Off: Loud mode is off.
- Subwoofer On: Subwoofer mode is on. Off: Subwoofer mode is off.

Bluetooth

 Bluetooth On: Turn on the power of the Bluetooth module.

Off: Turn off the power of the Bluetooth module.

Connect

Auto: Bluetooth module connects with the bluetooth device automatically after disconnecting.

Manual: Bluetooth module connects with the bluetooth device manually after disconnecting.

Auto Answer

Manual: Answer manually when one call is coming in.

Auto: Answer automatically when one call is coming in.

Pairing code

You should enter the pairing code when the bluetooth module is pairing with another bluetooth device. The original paring code is 1234 and you can change the paring code when the bluetooth module is on.



Setup

Rating

Some DVD discs have built-in parental lock which prevents children to watch some scenes as force or eroticism especially.

Set Password

The original password of the unit is null. You should set a new password ASAP.

Method of changing password:

(1) Open the parental lock

Touch the 'Password' option directly to open the keypad, touch the numeric buttons to enter your old password (initial password for the first time) and then confirm by touching the [ENT] button.

(2) Change the password Repeat the operation above to enter a 6-digit password (old or new) and then confirm. The new password becomes effective and the parental lock is closed.

Parental Ctrl

The unit has some watching level as followings: (1)Kid safe: A movie rating that is condign to children.

- (2)G: A movie rating that allows admission to persons of all ages.
- (3)PG: A movie rating that allows admission of persons of all ages but suggests parental guidance in the case of children.
- (4)PG-13: A movie rating that allows admission of persons of all ages but suggests parental guidance in the case of children under the age of 13.
- (5)PG-R: PG-related.
- (6)R: A movie rating that allows admission only to persons of a certain age,usually 17,unless accompanied by a parent or guardian.
- (7)NC-17: A movie rating that allows admission to no one under the age of 17.
- (8)Adult: A movie rating that is condign to the adult only.

Procedures of changing the rating:

(1)Open the parental lock

According to the same method mentioned in the first step of changing password.

- (2)Change the rating Select an appropriate rating from the
 - 'rating' list.
- (3)Close the parental lock

Repeat the operation of the first step to enter a 6-digit password (old or new) and then confirm. The parental lock is closed. Load Factory

To restore the default settings relating with DVD playback (e.g.: DVD Audio, DVD Subtitle), press the [RESET] option only.

Hardware

Camera In

Normal: Actual scenes shot by the camera display on the TFT monitor while reverse driving (just like what you are looking). Mirror: The mirror images of actual scenes display on the TFT monitor while reverse driving (just like looking from the rearview mirror).

TFT Auto Open

Auto: The TFT panel automatically opens when the unit is turned on.

Manual: When the ignition is turned off, the TFT panel remains open if it was opened previously.

Off: The TFT panel opens only by pressing OPEN button when the unit is turned on.

Video input

NTSC: Set the color system of the TFT screen to NTSC.

PAL: Set the color system of the TFT screen to PAL.

AUTO: Set the color system of the TFT screen automatically by the unit according to the input video formats.

Parking

On: Image displays only after your car has been parked.

Off: Image displays at all times.

P.VOL

P.VOL means Programmable Volume.

You can balance the volume among different audio sources using this function.

Source

Select one playing source that you want to set relative volume.

Level

You can set relative volume level from 0 to 3. • Led Standby

You can set the light of power button on or off.

TS CAL

When the touch function is not sensitive or valid, you should calibrate the touch screen by this function.

Calibrate the touch screen just following the screen introductions after entering the TS CAL mode.



EQ

EQ

Audio control allows you to easily adjust the audio system to get the best possible sound effect.

(1) Enter the EQ setup mode

Press the [SEL] key on the remote control or touch the EQ icon in the user interface and the following interface will display on the screen.



(2) Select EQ mode

Touch the EQ selection bar repeatedly and the EQ mode will change.

(3) Adjust EQ parameters

To adjust EQ parameters, touch and drag the EQ parameters adjustment bar.

(4) Adjust Front/Rear/Left/Right fader and balance

You can adjust front/back/left/right balance of the speaker to get larruping listening effect according to the surroundings and your interest.

To adjust Front/Rear/Left/Right fader and balance, touch and drag the small white point in the Fader/Balance adjustment area.

Notes:

- (1) The unit has provided some EQ modes: User, Rock, Hip Hop, Dance, Latin, Rave, Urban, Acoustic.
- ② Different EQ reflects in different Bass, Treble and Middle level. The parameters of the EQ modes has been preset and you can not change them besides 'User'.
- ③ The EQ mode will change to 'User' automatically when you adjust the value of BASS, TREB or MID under the modes besides 'User'.
- ④ The value of SUB is independent of EQ mode and can be adjusted solely.

Troubleshooting

What appears to be trouble is not always serious. Please check the following points before calling a service center.

Problem	Cause	Corrective action			
General					
	Unit fuse blown.	Install new fuse with correct rating.			
Unit can not power on	Car battery fuse blown.	Install new fuse with correct rating.			
	Illegal operation	Reset the unit.			
Remote control does not	Battery depleted.	Change the battery.			
work	Battery installed incorrectly.	Install the battery correctly.			
	Improper audio output connection.	Check wiring and correct.			
	Volume set too low.	Increase volume level.			
No/low audio output	Speakers damaged.	Replace speakers.			
	Heavily biased volume balance.	Adjust the channel balance to center position.			
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.			
	Piratic disc is in use.	Use original disc.			
Poor sound quality or	Speaker power rating does not match unit.	Replace speakers.			
distortion	Wrong connections.	Check wiring and correct.			
	Speaker is shorted.	Check wiring and correct.			
Tel-Mute malfunction	MUTE wire is grounded.	Check the 'MUTE' wiring and correct.			
Unit resets itself when Incorrect connection engine is off between ACC and BATT.		Check wiring and correct.			
	TFT monitor				
Monitor does not open automatically	TFT Auto Open is turned off.	Turn TFT Auto Open on.			
Warning information is shown at all times	Parking break wiring is not correct.	Check wiring and correct.			
Flashing image or	The color system of DVD disc does not match the monitor.	Adjust the color system of the DVD disc playing back or the monitor in use.			
interference appears on	Piratic disc is in use.	Use original disc.			
screen	Video cable damaged.	Replace cables.			
	Improper video signal connections.	Check wiring and correct.			

Troubleshooting

(Continued)

Problem	Cause	Corrective action				
Disc playback						
Cannot insert disc	A disc inside the unit already.	Eject current disc and insert new one.				
	Disc is warped or scratched.	Use disc in good condition.				
	Disc is dirty or wet.	Clean disc with soft cloth.				
Disc doos not play back	Incompatible disc is used.	Use compatible disc.				
	Disc is inserted upside down.	Insert disc with label side up.				
	Disc region code is not compatible with unit.	Use disc with proper region code.				
PBC cannot be used during VCD playback	PBC is not available on the disc.	Use disc with PBC available.				
Repeat or search function is invalid during VCD playback	PBC is on.	Turn PBC off.				
	Error message	S				
	Disc is dirty.	Clean disc with soft cloth.				
No disc	Disc is upside down.	Insert disc with label side up.				
	No disc inside.	Insert disc.				
Red dise	Disc is dirty.	Clean disc with soft cloth.				
	Disc is upside down.	Insert disc with label side up.				
Unknown disc	Disc format is not compatible with this unit.	Use disc with compatible format.				
Region Error	DVD region code is not compatible with this unit.	Use disc with compatible region code.				

Notes of connection

- This unit is designed to be used in a vehicle with a 12-volt battery and negative grounding. Before installing this unit to a recreational vehicle, a bus, or a truck, make sure the battery voltage is appropriate for this unit to be used, otherwise, install a transformer by professional to convert the output voltage to 12V.
- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.
- Replacing a new fuse with 10A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.
- DO NOT connect other equipments with the car battery to avoid battery overheating.
- Please make sure all the wiring connections & the cables of the speakers are well-insulated. Otherwise, this unit may be damaged by short circuit.
- If there is no ACC available, Please connect ACC lead to the power supply with a switch.
- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.
- Never ground the speaker output to prevent the damage to the built-in power amplifier.
- The minimum rating of the speakers connected to this unit is 50W with 4 to 8Ω impedance.

Control Cables

Auto Brightness Control

To avoid the display being too bright at night time, if the headlight cable is connected to ILLUMI, turning on the headlight will dim the backlight of the TFT LCD and vice versa.

Telephone Mute

If the MUTE cable is connected to a car phone, other audio outputs mute when one call is received by the car phone.

Reverse Driving

If a rear view camera is connected with the unit, the playing source switches to CAMERA automatically when you start reverse driving. As the reverse driving is done, the playing source switches to the previous.

Parking Brake

- If "PRK SW" cable is connected to hand brake switch, video display on the TFT monitor will be controlled by this function. Parking cable function ceases when the playing source is CAMERA.
- 2) The monitor displays the blue screen with warning information to prevent the driver watching video contents during driving, but the passengers at the rear seat can watch video contents normally.

Device connections

Parking Brake Cable Connections





Reverse Driving Cable Connections



Notes of installation

- (1) Before installation, please make sure proper connections are conducted and the unit operates normally. Improper connection may result in damage to the unit.
- (2) Use only accessories designed and manufactured for this unit and other unauthorized accessories may result in damage to the unit.
- (3) Before installation, please fasten all power cables.
- (4) DO NOT install the unit in the place where close to hot area to prevent damage to electrical components such as the laser head.
- (5) Install the unit horizontally. Installing the unit more than 30 degree vertically may result in worse performance.
- (6) To prevent electric spark, connect the positive pole first and then the negative pole.
- (7) DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

Unit Installation

Method A

- (1) Insert mounting bracket into dash board, choose appropriate mounting tab according to the gap width, bending the mounting tab outwards with a screwdriver to fix the mounting bracket in place.
- (2) Use 2 pieces of M5×5 cone shaped screw to fix two assemble bars on both sides of the unit(see picture 1)



(Picture 1)

(3) Screw in 1 piece of M5×24 to the hole of the unit back and put on a rubber sheath over the screw.(see picture 2)



(4) Insert the unit into the bracket, fasten the M4×6 screw to the fireproofing board available at the back of the dashboard, and use 4 pieces of M2×2 screw to lock the assemble bars and the mounting bracket in position.

Note:

According to the depth of the opening, use different length of assemble bar accordingly. If the opening is too shallow, the monitor may be extended out 10mm from the dashboard.

Method B



- (1) Insert this unit directly to the opening of the dashboard.
- (2) Place M4×3, M5×5 cylindrical screw or M5×5 cone shaped screw through the holes of the mounting frame located inside the opening to holes of the unit and fasten the screws to left & right.

EN - 22

Installation and uninstall

Trim Ring installation

Attach the trim ring around the front panel with two indentions on one side facing upwards.



Uninstall

Disassemble trim ring

(1) Push the trim ring upward and pull out the upper part.



(2) Push the trim ring downward and pull out the lower part.



Disassemble the unit

- (1) Unscrew the 4 pieces M2×2 screws.
- (2) Use a screwdriver to bend straight the bended mounting tab and tip out the unit from the mounting bracket.



(3) Pull out the unit from the mounting bracket with both hands.

Specifications

General

Reference Supply Voltage Operating Voltage Range 10.5~15.8V(DC) Max Operating Current Grounding System

12V DC 15A Car Battery Negative Pole 178x50x(165+25)mm

Installation Dimension (WxHxD)output Installation Angle Net Weight

 $0^{\circ} \sim 30^{\circ}$ 2.3kg

FM

Frequency Range	87.5-108.0MHz
Residual Noise Sensitivity	20dBµV
(S/N=30dB)	
Signal Noise Ratio	55dB
Station Seeking Level	20~30dBµV
Distortion	1.5%
Stereo Separation(1KHz)	25dB
Antenna Impedance	75Ω

MW

Frequency Range 522-1620KHz Residual Noise Sensitivity 40dBµV (S/N=20dB) Selectivity (±9KHz) 40dB

DVD Player

Signal / Noise Ratio	90dB
Dynamic Range	90dB
Distortion(line out)	0.1%
Frequency Response(±3dB)	20Hz~20KHz
Max Output Power	4×50W
Load Impedance	4Ω

AUX IN

Distortion	0.5%
Frequency Response(±3dB)	20Hz~20KHz
Audio Input Level	0.4Vrms

Audio

Audio Output Impedance 200Ω Audio Output Level 2Vrms(Max) Audio Input Level 0.4Vrms (Under normal audio input level and maximum volume)

Video

Normal Video Input Level 1.0±0.2V (CVBS) Video Input Impedance 75Ω Video Output Impedance 75Ω Video Output Level 1.0±0.2V (Under normal video input level)

TFT Monitor

Screen Diagonal	7 inches	
Usable Display Area	154.1(W) × 87.0 (H)	
Resolution	1440 (W) × 234 (H)	
Brightness	400cd/m2	
Video Output Level	1.0±0.2V	
(Measure the center brightness after 30 minutes)		
Contrast	300(TYP.)	
Response Time:		
Rise	12ms	
Fall	18ms	
Viewing Angle:		
From Top	40°	
From bottom	65°	
Horizontally	±65°	
LCD Life Cycle	10000 hours(at 25°C)	

Environment

Operating Temperature	-10°C~+60°C
Storing Temperature	-20°C~+70°C
Operating Humidity	45%~80%RH
Storing Humidity	30%~90%RH

Note:

Specifications are subject to possible modifications for improvement without further notice.

Appendix

Region Code

According to DVD sale region, the whole world is divided into six regions. A DVD disc can be played back only when its region code is compatible with that of the player in use.

Region 1: USA, Canada, East Pacific Ocean Islands;

- Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
- Region 3: Taiwan of China, Hong Kong of China, South Korea, Thailand, Indonesia, South East Asia;

Region 4: Australia, New Zealand, Mid & south America, South Pacific Ocean Islands/Oceania;

Region 5: Russia, Mongolia, India, Middle Asia, East Europe, North Korea, North Africa, North West Asia;

Region 6: Chinese Mainland.

Cautions of disc using

1) DO NOT use irregular shaped disc

2) Disc Cleaning

Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.

3) When playing a new disc

New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.

Wiring Diagram



