



FURRION

NV2200

NAVIGATION SYSTEM

OWNER'S MANUAL





Contents

1. PRECAUTIONS	3
2. FEATURES	4
Disc (DVD/CD/VCD)	4
Radio (AM/FM).....	4
Bluetooth.....	4
USB	5
CHASSIS	5
GENERAL	5
NAVIGATION	5
CAMERA	6
INSTALLATION AND USAGE REQUIREMENTS	6
3. OPERATIONAL PANEL	7
FUNCTIONS OF BUTTONS	7
4. REMOTE CONTROL	8
REMOTE CONTROL FUNCTIONS	8
5. WHEEL KEY STUDY	10
6. MAIN MENU	11
SCROLLING THE MENU	11
MOVING THE ICON POSITION	11
7. DISC VIDEO PLAYER OPERATIONS	12
DVD SYSTEM SETUP	12
WATCH A DISC	12
EJECT A DISC	12
DVD PLAYER MODE SCREEN	12
DVD PLAYER MENU OPERATION	12
Title Menu.....	13
VIDEO FILES PLAYBACK	14
VIDEO FILES PLAYER MODE SCREEN	14
VIDEO FILES PLAYER MENU OPERATION	14
8. DISC AUDIO PLAYER OPERATION	16
WATCH A DISC / EJECT A DISC	16
CD PLAYER MODE SCREEN	16
CD PLAYER MENU OPERATION	16
MP3 / WMA Playback Menu	18
9. AUDIO SETUP	19
EQ SETUP MENU	19
10. USB AUDIO OPERATIONS	20
Notes on Using USB Memory Device	20
SELECT USB AUDIO MODE	20
PLAY AUDIO FILES IN USB MEMORY	20
11. USB VIDEO OPERATIONS	22
Notes on Using USB Memories	22
Select USB Video Mode	22
Playing Video Files in USB Memory	22
PLAY PICTURE FILES IN USB MEMORY	23
12. BLUETOOTH AUDIO PLAYER OPERATIONS	25
Selecting the Bluetooth Audio Mode.....	25
Bluetooth Audio Player Settings.....	25
Registering your Bluetooth Audio Player (Pairing).....	25
Selecting the Bluetooth Audio Player.....	26
Control the Bluetooth Audio Player.....	26
13. BLUETOOTH TELEPHONE OPERATIONS	27
Select the BT Phone Mode	27



Bluetooth Telephone Settings.....	27
Registering Your Cellular Phone (Pairing).....	28
Select the Cellular Phone.....	28
Obtain Phone Book Data	28
Telephone Operations	28
14. RADIO OPERATIONS	30
15. AUX	32
16. CAMERA INPUT OPERATIONS	32
17. SETUP OPERATIONS	33
General Setup Menu.....	33
Video Setup Menu	33
Audio Setup Menu.....	33
Navigation Setup Menu.....	33
Others Setup Menu.....	33
18. REPLACE REMOTE CONTROL BATTERIES	35
CAUTIONS	35
19. TROUBLESHOOTING GUIDE	36
GENERAL	36
TFT SCREEN	36
TUNER	37
MP3.....	37
CD PLAYER	37
REMOTE CONTROL	37
20. SPECIFICATIONS	38
21. WIRE CONNECTION GUIDE	40



WELCOME

Thank you for purchasing this Furrion® NV2200. Before operating your new appliance, please read these instructions carefully. This instruction manual contains information for safe use, installation and maintenance of the appliance.

Please keep this instruction manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this appliance.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

If you have any further questions regarding our products, please contact us at support@furrion.com

1. PRECAUTIONS

1. Read these instructions entirely.
2. Keep these instructions. Whoever uses the unit should have access to this manual.
3. Heed all warnings. Follow all instructions.
4. This unit is designed to be used in a vehicle with 12V DC battery and negative ground.
5. Do not operate the unit in any other way than described in this manual. Failure to follow the instructions within this manual may void your warranty.
6. Do not disassemble or alter the unit in any way, because it will void your warranty. Do not attempt to repair or to service the unit yourself.
7. Use only original accessories which are designed and manufactured for the unit otherwise you will risk damage. Install the unit according to the mounting manual by using the supplied mounting accessories. The forces of acceleration for accidents are sometimes huge. Incorrect mounted units are a big risk for the driver and the car passengers, during an accident.
8. Protect the unit from water and other liquids, which can enter the casing. A short circuit or even fire could be the result.
9. To prevent a short circuit, never insert or stick any metallic objects (such as coins or metal tools) into the unit.
10. Before you replace a defective fuse, try to find the cause for the short circuit. Please pay attention to the cables of the power supply! If the short circuit doesn't result from a failure of the power supply or wiring, you can replace the defective fuse with a new one (same values).
11. When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.
12. Be careful not to drain the vehicle battery while using the unit when the vehicle engine is turned off. Because the unit uses a considerable amount of energy and the battery will be charged only while the engine is running, it might happen that the battery will discharge to a point where it's no longer possible to start the engine.
13. According to the law in different countries, driving with monitors which are showing movies in the viewing range of the driver is not allowed, because the driver might be distracted from the traffic. Please respect the traffic regulations of your country, or you might face penalties in case of an accident or even lose your insurance coverage. Please pay attention to the volume inside your vehicle, because you are obliged to notice exterior sounds like ground.
14. Don't expose the unit to hard impacts. A mechanical or electrical malfunction of the unit could be the result.
15. This unit utilizes a laser class 1. During usage the control or adjustments other than those specified herein may result in hazardous exposure to coherent light. Do not open covers and do not attempt to make repairs yourself. Refer servicing to qualified personnel.



2. FEATURES

Disc (DVD/CD/VCD)

- 12 cm disc type supported: DVD-Video, DVD±R/RW, CD-DA, CD-R, and CD-RW.
- Support audio format: MP3, Kodak Photo CD, AAC, WMA, M4A.
- ID3 tag compatible.
- 16Mbit electronic shockproof: 3 seconds DVD video / 10 seconds CD audio.
- Break-point memory function.
- All area code supported.
- Functions on DVD: play, pause, stop, previous chapter, next chapter, fast forward, fast backward, subtitle selection, audio selection, A-B repeat, scene selection.
- Functions on CD: play, pause, previous track, next track, random play, repeat play, track selection.
- Functions on VCD: play, pause, previous chapter, next chapter, fast forward, fast backward, subtitle selection, audio selection, aspect ratio selection, A-B repeat.
- Support picture format: JPEG.
- Functions on picture: picture selection, automatic play, pause, previous picture, next picture.
- Support video format: MPEG 1 / 2 / 4, AVI, FLV, DAT, VOB, OGM, ASF (support maximum resolution 720p).
- Functions on video: video selection, play, pause, previous video, next video and aspect ratio selection.

Radio (AM/FM)

- USA/Europe/Latin America/Asia Frequency Spacing.
- 30 station presets (18FM / 12AM).
- 5 bands (FM1 / FM2 / FM3 / AM1 / AM2).
- Automatic search (start at the current frequency to search all FM and AM stations automatically, 30 of them with the strongest signal would be stored in the station presets).
- Search and play (start at the current frequency to search all FM and AM stations automatically, every searched station will be played for 10 seconds before searching for the next station).
- Station preset storage (store the current station to a preset memory in a band).
- Preset station recall (recall a preset station in a band).
- Local / Distance.

Bluetooth

- Support HFP, A2DP and AVRCP.
- Support external microphone.
- Main functions:
 - Direct dial (on screen keypad)
 - Missed call list
 - Received call list
 - Dialed call list
 - Phone book
 - Bluetooth audio (play, pause, previous track, next track)
- Functions during phone conversation
 - End call



Transfer to phone (transfer a call back to mobile phone)

Mute

Keypad

Redial

- When a call is received, the unit will mute audio output and pause disc play, and switch to Bluetooth conversation screen.

USB

- Support maximum capacity: 32GB.
- USB 1.0 and USB 2.0 compatible.
- Support audio format: MP3, WAV, AAC, FLAC, WMA, APE.
- Functions on audio: play, pause, previous track, next track, random play, repeat play, track selection.
- Support picture format: JPEG, JPG, GIF, PNG, BMP.
- Functions on picture: play, pause, previous picture, next picture, picture selection.
- Support video format: MPEG 1 / 2 / 4, XivD, MP4, MOV, AVI, WMV, ASF, FLV, MKV, VOB, DAT, MPG OGM, RM, RMVB (support maximum resolution 720p).
- Functions on video: play, pause, previous video, next video, aspect ratio selection, video selection.

CHASSIS

- Double DIN (mountable).
- Fixed front panel.
- 6.2" high definition TFT LCD.
- 800 x 3 (RGB) x 480 resolution.

GENERAL

- Front / Rear USB input.
- Front A/V aux input for portable media.
- Front micro SD reader.
- Rear composite video and audio output.
- Rear subwoofer output.
- Rear composite video and audio input.
- Rear camera video and audio input.
- Touch screen calibration mode.
- Steering wheel key controls.
- Built-in Bluetooth with microphone, providing Hands-Free operation (dial / answer / phone book / call list synchronization), and A2DP for streaming audio from your smartphone or other Bluetooth compatible devices.
- Built-in 4 x 25Watt RMS output amplifier.
- Automatic antenna control.
- Pre Amplifier Control.

NAVIGATION

- Only insert the Furion map SD to use navigation function. For more information or to purchase maps, please visit: www.furion.com/maps.
- Latest map guarantee (limited time only – within 30 days of initial activation).



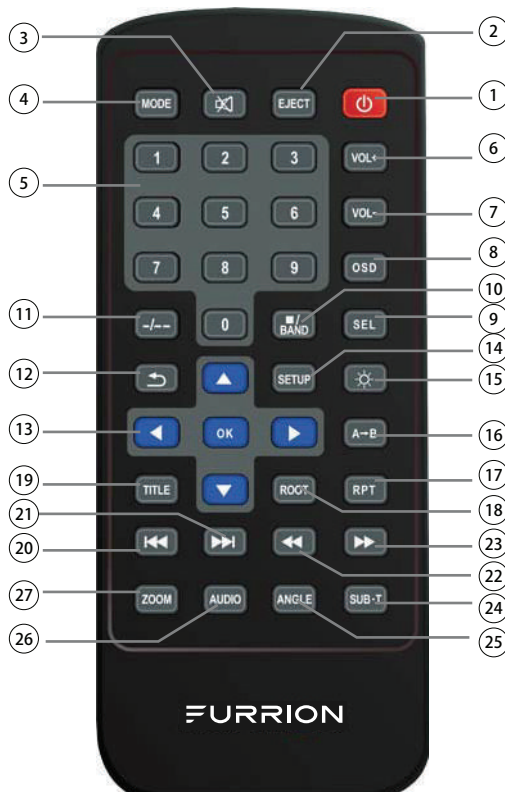
CAMERA

- When camera and signal wire is connected and operated properly, CAMERA mode will be activated automatically when there is signal.
- Image Display of Automatic Car Reversing Function in Shutdown Mode.

INSTALLATION AND USAGE REQUIREMENTS

- Operation temperature: -20 to +70 degree Celsius.
- Storage temperature: -30 to +80 degree Celsius.
- Operation voltage: 10.5 – 16.0V DC, negative ground.
- Fuse: 15-amps.
- Standby current: ACC OFF $\leq 5\text{mA}$.
- DIN chassis dimensions: 178mm x 153mm x 100mm.

4. REMOTE CONTROL



REMOTE CONTROL FUNCTIONS

1- [POWER] Button

- Press this button to power on when the unit is power off.
- Press this button more than 1 second to power off when the unit is power on.

2- [EJECT] Button

- Press to eject disc from the unit.

3- [MUTE] Button

- Mute or unmute the speaker.

4- [MODE] Button

- Press this button to switch between sources.

5- [0 - 9] Buttons

- Use in the key pad screen to select the radio.
- Use to select the track in the track list screen.
- Press to enter DVD video chapters/titles in the key pad screen.

6- [VOL+] Button

- Increase volume.



3. OPERATIONAL PANEL



FUNCTIONS OF BUTTONS

[MICROPHONE]

- This is used for Bluetooth phone.

[IR] SENSOR

- Receiver for the remote control unit.

[▲] EJECT

- Press to eject disc from the unit.

[MICRO SD SLOT]

- Note – The micro SD card is only for navigation purpose, please do not insert micro SD card for other purposes. When the navigation function is activated, do not remove micro SD card.

[POWER / VOL] KNOB

- Press this knob to turn on the power.
- Press this knob for more than 2 seconds to turn off the power.
- Turn this knob clockwise or counter-clockwise to increase or decrease the volume of the system.
- Push quickly for mute on/off.

[NAVI] BUTTON

- Press this button to activate navigation function, press again to return to current source.

[AUX IN]

- AUX connector on front panel.

[USB] PORT

- USB connector.

[RESET] BUTTON

- Press this button to reset the unit in hardware.



7- [VOL-] Button

- Decrease volume.

8- [OSD] Button

- Touch button on DVD Player mode screen, playback status is displayed on screen.

9- [SEL] Button

- Press to enter audio setting.

10- [STOP/BAND] Button

- Short Press to stop video and audio media.
- Long press to switch to next band alternately.

11- [SEARCH] Button

- Press this button to open chapter or title search window while playing DVD and USB.

12- [BACK] Button

- Press this button to quit main menu if current screen is main menu.

13- [▲], [▼], [◀], [▶] [OK] Buttons

- Press UP/DOWN/LEFT/RIGHT for cursor movement in main menu or setting mode.
- From the main menu, you can select your desired source or change your settings.
- Press OK to fix the entered data in the key pad screen or enter the item the cursor is on.

14- [SETUP] Button

- Press this button to enter the main setting menu or return current resource.

15- [PIC] Button

- Press this button to enter monitor brightness setting.

16- [A-B] Button

- Press to start demo playback from A to B.

17- [RPT] Button

- Press to perform chapter repeat / title repeat / repeat off while playing DVD mode.
- Press to perform repeat track / repeat all while playing CD.
- Press to perform repeat track / repeat folder / repeat all while playing audio or video files on disc.
- Press to perform repeat track / repeat folder / repeat all while playing audio or video files in USB memory.

18- [ROOT] Button

- Press to go to the root menu on the DVD.

19- [TITLE] Button

- Press to go to the title menu on the DVD.

20- [◀◀] Button

- Press to seek the next available lower station in Tuner mode.

- Press to select the next lower chapter number in DVD video mode.

- Press to select the next lower track in CD, USB Video, USB Audio mode.

21- [▶▶] Button

- Press to seek the next available higher station in Tuner mode.
- Press to select the next higher chapter number in DVD video mode.
- Press to select the next higher track in CD, USB Video, USB Audio mode.

22- [◀◀] Button

- Press to manually select the next lower station in Tuner mode.
- Press to perform fast-backward searching. Press again to change the speed to 2X, 4X, 8X or up to 32X.

23- [▶▶] Button

- Press to manually select the next higher station in Tuner mode.
- Press to perform fast-forward searching. Press again to change the speed to 2X, 4X, 8X or up to 32X.

24- [SUB-T] Button

- Press to switch next available subtitle while playing DVD.

25- [ANGLE] Button

- Press to switch the different angle while playing DVD. (Not all DVD disc support this function).

26- [AUDIO] Button

- Press to switch the audio channel of the disc while playing DVD.

27- [ZOOM] Button

- Press to turn on and zoom in while playing DVD. You can zoom in up to 4X (Not all DVD disc support this function).



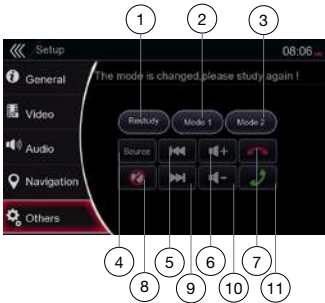
5. WHEEL KEY STUDY

- 1.Touch the **[Setup]** button on the Main Menu.
- 2.Touch the **[Others]** button. The below menu is displayed.



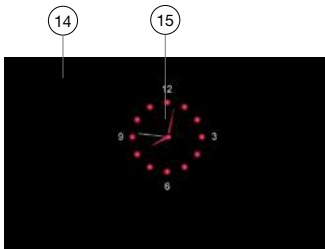
- 1 - Restudy
- 2 - Mode 1
- 3 - Mode 2
- 4 - Source
- 5 - Previous
- 6 - Volume +
- 7 - End a call
- 8 - Mute
- 9 - Next
- 10 - Volume -
- 11 - Call

- 3.Touch the [Wheel Key Study] button. The below menu will be displayed.





6.MAIN MENU



1 - Radio --- Touch the button to display the Radio mode.

2 - AUX1 --- Touch the button to display the AUX1 mode.

3 - USB Audio --- Touch the button to display the USB Audio mode.

4 - Disc Audio --- Touch the button to display the Disc Audio mode.

5 - Bluetooth Audio --- Touch the button to display the Bluetooth Audio mode.

6 - Camera --- Touch the button to display the Camera mode.

7 - Back --- Touch the button to display current play mode.

8 - Setup --- Touch the button to display the Setup menu.

9 - Telephone --- Touch the button to display the Telephone mode.

10 - AUX2 --- Touch the button to display the AUX2 mode.

11 - USB Video --- Touch the button to display the USB Video mode.

12 - Disc Video --- Touch the button to display the Disc Video mode.

13 - Navi --- Touch the button to display the Navigation mode.

14 - Background --- Touch the background to display the Main Menu.

15 - Clock

SCROLLING THE MENU

- Flicking to right or left it will switch to next or previous page of Main Menu.

MOVING THE ICON POSITION

1. Touch any icon on Main Menu more than 3 seconds, the icon will float on Main Menu.
2. Scrolling the floating icon to any position you want.



7. DISC VIDEO PLAYER OPERATIONS

DVD SYSTEM SETUP

Note: If the setup operation is made in the middle of DVD video play, the disc will re-start from the beginning.

WATCH A DISC

1. To read a disc:

- Insert the disc into the center of the disc insertion slot with label side facing up.

CAUTION – For your safety, the driver should not insert or eject a disc, touch the operational panel while driving.

Note:


Do not insert foreign objects into the disc insertion slot.

If there is difficulty inserting the disc, there may be another disc in the system, or the system may require service.

8cm discs are not allowed.

2. Disc starts playing automatically.

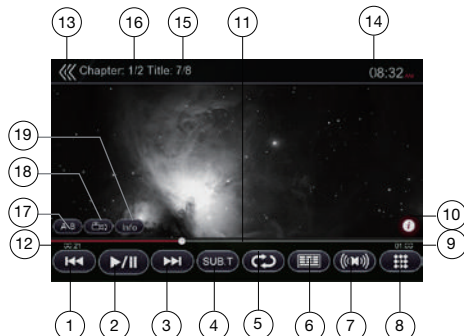
EJECT A DISC

- To eject a disc press eject [] button to eject the disc. The play mode then switches to the Radio mode.
- If the disc is left in the ejected position for 15 seconds, the disc is automatically reloaded. In this case, the play mode will remain in the Radio mode.

Note: If you force a disc into the system before automatic reload, it may damage a disc.

DVD PLAYER MODE SCREEN

- Touch any place of the screen to display DVD Video menu, touch the screen again to return the playback. The display will return to the playback screen, if you do not touch the screen for 7 seconds.





- 1 - Previous Chapter / Fast Backward button
- 2 - Play / Pause
- 3 - Next Chapter / Fast Forward button
- 4 - Subtitle switching button
- 5 - Repeat switching button
- 6 - Direct chapter or title searching button
- 7 - Audio Channel switching button
- 8 - Menu List button
- 9 - Total time
- 10 - Open/Close the hidden functions button
- 11 - Seek bar
- 12 - Elapsed playing time
- 13 - Return button (to Main Menu)
- 14 - System time
- 15 - Title information
- 16 - Chapter information
- 17 - A-B button
- 18 - Angle button
- 19 - Info button



DVD PLAYER MENU OPERATION

- Select the buttons displayed in the DVD Player Menu by direct touching it.


Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.



Skip a Chapter

1. Touch [] or [] button during playback.
- Chapters are skipped down or up from current location, as many times as the button is touched, and playback starts.

Skip by Seek Bar

- Touch [] on seek bar and drag it to any position where you want to start playback.

Fast Forward / Fast Backward

1. Touch [] or [] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x and up to 32X. Release the button will continue playing with normal speed.

Note:

During fast forward and fast backward operation, there is no audio reproduced.

The fast forward and fast backward speed may differ depending on the disc.



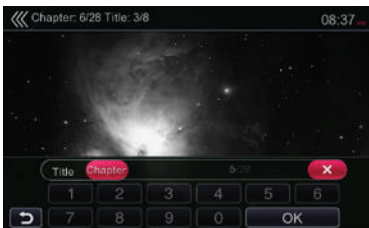
Search

1. In the DVD Video menu, touch [] button. The keypad screen appears with the chapter/title number input mode.
- Touch [Chapter] button turns the keypad to the chapter number input mode.
- Touch [Title] button turns the keypad to the title number input mode.

Title: A large segment to divide the data area of the disc.

Chapter: A small segment to divide the data area of the disc.

2. Input the number of the chapter/title that you want to play with the [0] to [9] key.
3. Touch [] button.



- Playback starts from the scene of the input chapter number or title number.

Note:

If the input chapter/title number does not exist or searching with a chapter/title is not allowed, the screen image will not change.

4. Touch [] button to close the keypad.

Repeat Playback

1. In the DVD Video menu, touch [] button.
2. Touch [] button once for Repeat Chapter, again for Repeat Title.
3. Touch [] button again to turn off the repeat playback.

Title Menu



1. In the DVD Video menu, touch [] button during playback.
- Depending on the disc, the title menu may not be called.
2. Touch [] on the title menu screen.



3. Select the items in the title menu screen by [] directional buttons.
- Depending on the disc, items may not be selected with the directional buttons.
4. Touch [] button to fix on the selected item.
5. Touch [] button.
6. Touch [] button to close the title menu screen.

Audio Switch

- For discs with two or more audio languages recorded, you can switch among the audio languages during playback.

1. In the DVD Video menu, touch [] button during playback.
- Each time you touch the button, you can switch among audio languages.
- It may take time to switch among audio languages.

Depending on the disc, up to 8 kinds of audio languages may be recorded. For detail, see the mark of the disc: () indicates that 8 audio languages have been recorded).

When the power is turned on and when the disc is changed to a new one, the audio language set as factory default is selected. If that audio language has not been recorded on disc, the audio language is specified on the disc.

Depending on the disc, audio switch may be completely impossible or impossible on some scenes.

Subtitle Switch

- For discs with two or more subtitle languages recorded, you can switch among the subtitle languages during playback.

1. In the DVD Video menu, touch [] button to select a subtitle during playback. Each time you touch the button, you can switch among subtitles.

- It may take time to switch among subtitles.

Depending on the disc, up to 32 kinds of subtitles may be recorded. For detail, see the mark of the disc: () indicates that 8 kinds of subtitles have been recorded).



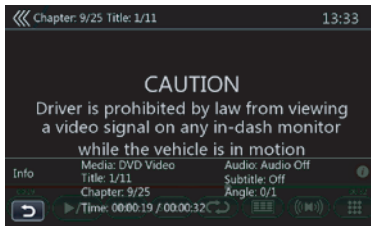
When the power is turned on and when the disc is changed to a new one, the subtitle set as factory default is selected. If that subtitle has not been recorded on disc, the subtitle is specified on the disc.

Depending on the disc, subtitle switch may be completely impossible or impossible on some scenes.

2. To turn off subtitles, repeat touching [SUB] until subtitles are turned off.

Display Playback Status

- Touch [INFO] button on DVD Player mode screen, playback status is displayed on screen.



VIDEO FILES PLAYBACK

- This system can play video files (AVI/MP4...etc.) stored on disc

VIDEO FILES PLAYER MODE SCREEN

1. After disc with video files is loaded, touch [Disc Video] button on Main Menu to show videofiles playback mode screen.
2. Touch the screen of the playing video file to display Video Files Player menu, touch the screen again to return the playback screen. The display will return to the playback screen, if you do not touch the screen for 7 seconds.



- 1 - Elapsed playing time
- 2 - Previous Track / Fast Backward button
- 3 - Play/Pause button
- 4 - Next Track / Fast Forward button

14

- 5 - Switch next available subtitle
- 6 - Repeat button
- 7 - Direct chapter or title searching button
- 8 - Audio button
- 9 - List Mode button
- 10 - Total time
- 11 - System time
- 12 - Playback file information
- 13 - Return button (to Main Menu)
- 14 - Seek bar
- 15 - A-B button
- 16 - Angle button
- 17 - Info button
- 18 - Open/Close the hidden functions button

VIDEO FILES PLAYER MENU OPERATION

- You can select the button displayed in the Video Files Player menu by directly touching it.

Play/Pause Playback

1. Touch [PAUSE] button to pause during playback.
2. Touch [PAUSE] button again to resume playback.

Switch to Previous/Next File

1. Touch [PREV] or [NEXT] button during playback to play previous/nextfile.

Skip by Seek Bar

- Touch [SEEK] on seek bar and drag it to any position where you want to start playback.

Fast Forward / Fast Backward

1. Touch [FF] or [BB] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x and up to 32X. Release the button will continue playback with normal speed.

Note:

During fast forward and fast backward operation, there is no audio reproduced.

The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

- The repeat set as the factory default is Repeat All.

 1. In the Video Files Player menu, touch [REPEAT] button.
 2. Touch [REPEAT] button once for Repeat Track, again for Repeat Folder.
 3. Touch [REPEAT] button again for Repeat All.

Audio Switch

- For video files with two or more audio channels, you can switch among the audio channels during playback.

 1. Touch [AUDIO] button during playback.



- Each time you touch the button, you can switch among audio languages.
- It may take time to switch among audios.
Depending on the video files, switching may be impossible.

Subtitle Switch

- For video files with two or more subtitles, you can switch among the subtitles during playback.
1. Touch the [SUB] button to select a subtitle during playback.
- Each time you touch the button, you can switch among subtitles.
 - It may take time to switch among subtitles.
Depending on the video files, switching may be impossible.

Video Files List

- In the Video Files Player menu, touch the [VCL] button to display video files list screen. Video files list operations is almost same as Disc Audio Player mode. Please refer to CD Player Operations.



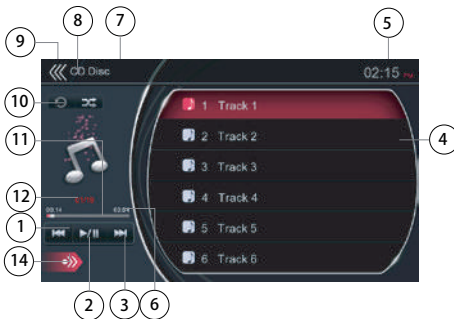
8. DISC AUDIO PLAYER OPERATION

WATCH A DISC / EJECT A DISC

Please refer to DISC VIDEO PLAYER OPERATIONS – WATCH A DISC and EJECT A DISC.

CD PLAYER MODE SCREEN

1. After disc is loaded, the play mode is automatically engaged.
2. If disc has been loaded, you can touch [Disc Audio] button on Main Menu to display CD Player Mode screen.



- 1 - Previous Track / Fast Backward button
- 2 - Play / Pause button
- 3 - Next Track / Fast Forward button
- 4 - Song Title
- 5 - System time
- 6 - Total time
- 7 - Shuffle button
- 8 - Current play mode
- 9 - Return button (to Main Menu)
- 10 - Repeat button
- 11 - Playback track information
- 12 - Album information
- 13 - Elapsed playing time
- 14 - Option button
- 15 - Scan Start / Stop button

- 16 - Direct searching button
- 17 - Close option menu button

CD PLAYER MENU OPERATION

You can select the button displayed in the CD Player menu by directly touching it.

Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Switch to Previous/Next File or Track

Touch [] or [] button during playback to play previous /next file.

- Touch [] button starts playback from the beginning of the next track.
- Touch [] button starts playback from the beginning of the current track. When this button is touched again within 5 seconds, playback starts from the beginning of previous track.

Fast Forward /Fast Backward

1. Touch [] or [] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and up to 32X. Release the button will continue playback with normal speed.

Note:

- The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

- * The repeat set as the factory default is Repeat All.
- Touch [] button switch between Repeat Folder Repeat All and Repeat Track.

Shuffle Playback

1. Touch [] button to shuffle the tracks during playback.
2. Touch this button again to turn off shuffle playback.

Track Selection on Track List Screen

1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, touch and flick the track list up or down.
3. Touch the desired track title button. The corresponding track is started playback.

Tracks Scan

1. Touch [] button to show [] button.
2. Touch [] button during playback.
 - It will play from the next track, and each track will display for 10 seconds.
3. Touch [] button.
 - It will continue playback from the current track.



- [REDACTED] button will switch to [REDACTED] button.
- The function will scan all tracks orderly in current folder once. After scan stopped playback will continue.

Track Number Search

This operation allows searching using the track numbers recorded on the CDs.

1. Touch [REDACTED] button to show [REDACTED] button.
2. Touch [REDACTED] button. The numerical keypad will appear on the screen.
3. Input the track number that you want to playback with [0] to [9] key and touch [REDACTED] button.

Playback starts from the track of the input track number.

- If the input track number does not exist or searching with track number is not allowed, the screen image will not change.
- Touch the [REDACTED] button will close the numerical keypad.
- Touch [REDACTED] button will close the option window and display playback screen.



Compressed Audio Playback

This system can play audio files stored on disc. MP3 / WMA

Tag Display Function

This unit is an ID3 Tag compatible model

This unit supports ID3 Tags of the version 2.4, 2.3, 1.1 and 1.0.

In displaying, this unit gives priority to the version 2.4 and 2.3 Tags.

Note:

- Some CDs recorded with CD-R / RW may not be usable.

MP3 / WMA Tag Titles Display

Tag information can be displayed for compressed audio file containing Tag information.

MP3: title, artist, album

WMA: artist

Precautions for MP3 Disc Creation

- File extensions

1. Always add a file extension ".MP3" or ".mp3" to an MP3 file, and ".WMA" or ".wma" to a WMA file by using single byte letters. If you add a file extension other than specified or forget to add these file extension, the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixed for file extensions, normal play may not be possible.

2. Files other than MP3 / WMA data cannot be played.

Playing files with a format not supported will be skipped, and the scan, random and repeat playback mode may be cancelled.

• Files and Discs Not Supported

Files and discs with the following extensions are not supported: *.AAC, *.DLF, *.M3U, *.PLS, *.MP3 PRO files, files with DRM, open session discs.

• Logical Format (File system)

1. When writing MP3 / WMA file on a disc, please select "ISO9660 level 1 or level 2 (without including expansion format)" as the writing software format. Normal playback may not be possible if the disc is recorded on another format.

2. The folder name and file name can be displayed as the title during MP3 / WMA play.

• Entering File and Folder Names

Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly.

• Electronic Shock Protection

CD-DA (CDA) 10 seconds

45 seconds for MP3 recorded at 44.1 kHz, 128 kbps

90 seconds for WMA recorded at 44.1 kHz, 128 kbps

• Folder Structure

A disc with a folder having more than 8 hierarchical levels will conflict with the ISO9660 and playback will be impossible.

• Number of Files and Folders

1. The maximum allowable number of folders is 255 (including root directory); the maximum allowable number of files is 512 (max. 255 per folder). This represents the maximum number of tracks that can be played back.

2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC).

- Some noise may occur depending on the type of encoder software used while recording.
- In case of a track recorded at VBR (variable bit rate), the display for the play time of the track may be slightly different from the actual play time. Also, the recommended value of VBR ranges from 32kbps to 320kbps.



MP3 / WMA Playback Menu



1. Repeat Playback

While playing MP3 / WMA touch [MP3] button can switch between Repeat Folder, Repeat All and Repeat Track.

2. Folder

Touch the title of folder, play list will show files and folders in the selected folder.

3. Current Folder

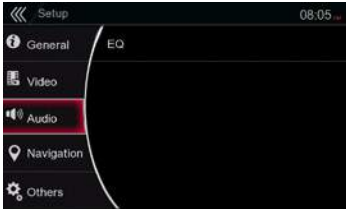
- Showing title of current folder.
- The number on the folder symbol is the number of files and folders number in current folder.
- Touch [MP3] button, play list will show files and folders in upper folder.

* Other operations about playing MP3 / WMA are almost same as CD Player mode.



9. AUDIO SETUP

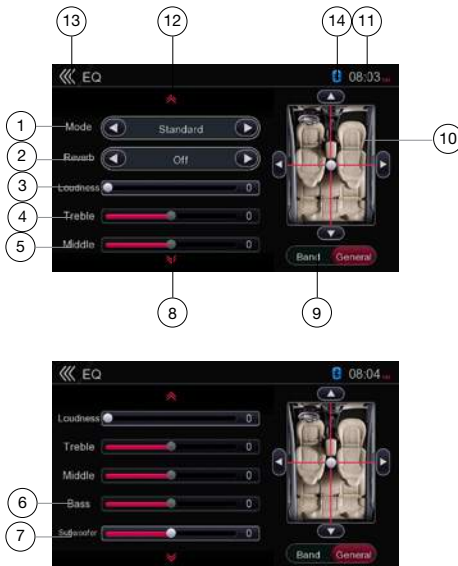
1. Touch **[Setup]** button on the Main Menu screen. The Setup Menu screen will be displayed.
2. Touch **[Audio]** button.
3. Touch **[EQ]** button.



EQ SETUP MENU

This menu includes Mode, Reverb, Loudness, Treble, Middle Bass and Subwoofer.

- 4 - Treble: Choose the desired treble from -14 to 14 (only in User mode).
- 5 - Middle: Choose the desired middle from -14 to 14 (only in User mode).
- 6 - Bass: Choose the desired middle from -14 to 14 (only in User mode).
- 7 - Subwoofer: Choose the desired loudness from -20 to 20.
- 8 - Scroll Down: Scroll down to bottom part of EQ Setup menu.
- 9 - Band / General: Choose between band or general settings (only in User mode).
- 10 - Balance / Fader: Choose the desired volume for left and right, front and rear speaker.
- 11 - System time
- 12 - Scroll Up: Scroll up to top part of EQ Setup menu.
- 13 - Return: Return to Audio Setup menu
- 14 - Bluetooth status indicator



- 1 - Mode: Choose the desired mode: Standard, Jazz, Pop, Classical, Rock, News, Urban, Rave, Movies, Techno, and User.
- 2 - Reverb: Choose the desired mode: Off, Livingroom, Hall, Concert, Cave Bathroom, and Arena
- 3 - Loudness: Choose the desired loudness from 0 to 20.



10. USB AUDIO OPERATIONS

Notes on Using USB Memory Device

General notes

- When a USB Memory Device contains no supported files, the file list displays nothing.

Notes on the Audio files

- This system can play the MP3 / WMA files stored in the USB memory.
- MP3 files
- Format: MPEG1 / 2 Audio Layer 3
- Bit Rate: 16 – 320kbps (VBR)
- Sampling Frequency: 8 / 12 / 16 / 24 / 32 / 44.1 / 48kHz
- File Extension: .MP3 or .mp3

Notes on the Folder Structure

- The folder hierarchy must be within 8 hierarchical levels. Otherwise, playback may be impossible.
- The maximum allowable number of folders is 512 (including root directory and folders with no MP3 files, WMA files).
- The maximum allowable number of files in a folder is 255.
- You can store the MP3 files, WMA files together in a folder
- The system may become slow if the files or folders exceed the limitable above.

Notes on the Tag Titles

The limitations on the Tag Titles are same as those in Disc Audio Player mode.

SELECT USB AUDIO MODE

Connect your USB memory with video files to the USB connector. The system will automatically detect the connected device, and the [USB Audio] button on Main Menu will be enabled.

- When an USB memory is already connected

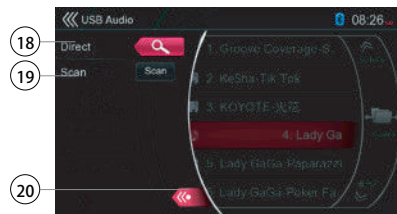
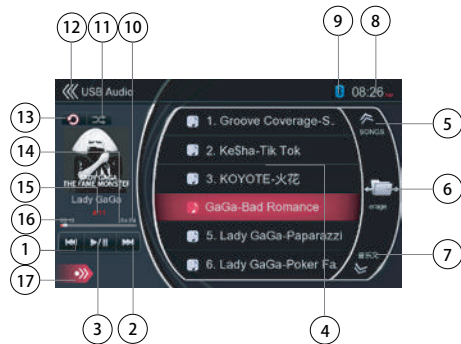
Touch [USB Audio] button to select the USB Audio mode.

The system changes to the USB Audio mode and starts playback from the previous position or from the beginning.

Note:

- This system has two USB connectors and can connect two USB devices.
- You can select the desired USB device by touching the list of USB root menu.
- This system indicate the USB as "HCD0 USB Hard Disk", "HCD1 USB Hard Disk" on the list.

20



- 1 - Previous Track / Fast Backward button
- 2 - Play / Pause button
- 3 - Next Track / Fast Forward button
- 4 - Song title
- 5 - Previous Folder button
- 6 - Current Folder button
- 7 - Next Folder button
- 8 - System time
- 9 - Bluetooth status indicator
- 10 - Total Time
- 11 - Shuffle button
- 12 - Return button (to Main Menu)
- 13 - Repeat button
- 14 - Playback status indicator
- 15 - Album information
- 16 - Elapsed playing time
- 17 - Option button
- 18 - Direct button
- 19 - Scan button
- 20 - Close option menu

PLAY AUDIO FILES IN USB MEMORY

Play / Pause Playback

Touch [] button to pause during playback.



Touch [⏮] button again to resume playback.

Previous / Next File Switch

Touch [⏮] or [⏭] button during playback to play previous / next file.

Touch [⏮] button to start playback from the beginning of the next track.

Touch [⏮] button to start playback from the beginning of the current track; when this button is touched again within about 5 seconds, playback starts from the beginning of previous track.

Fast Forward / Fast Backward

Touch [⏮] or [⏭] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and up to 32X. Release the button to continue playback with normal speed.

Note:

- The fast forward and fast backward speed may differ depending on the audio files.

Repeat Playback

The repeat set as the factory default is Repeat All.

Touch the [🔁] button once for Repeat Track, again for Repeat Folder, Repeat All.

Shuffle Playback

1. Touch [🔀] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

Album Art

If the current audio file contains album art image in ID3, the picture will be displayed in this area.

ID3 Information Area

This area display ID3 information of playing file: song title, artist information, album information, number of current file / total number in current folder elapsed playing time / total time of current file.

Skip by Seek Bar

Touch [🔍] on seek bar and drag it to any position where you want to start playback.

Select a Folder on Display List

Touch the folder title on the display list, the display list will display files and folders in selected folder.

Select a Track on Display List

This function allows you to select tracks from a displayed list.

1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, touch and flick the track list up or down.

3. Touch the desired track title button. The corresponding track will start playback.

Scan the Tracks

1. Touch [🔍] button show [🔍] button.
2. Touch [🔍] button during playback.
 - It will play from next track, and each track will display for 10 seconds.
 - The [🔍] button will switch to [🔍] button.
3. Touch [🔍] button.
 - It will continue playback from current track.
 - [🔍] button will switch to [🔍] button.

*The function will scan all tracks orderly in current folder once. After scan stopped, playback will continue.

Track Number Search

This operation allows searching to use the track numbers in playback folder.

1. Touch [🔍] button to show [🔍] button.
2. Touch [🔍] button. The numerical keypad will appear on screen.
3. Input the track number that you want to playback with [0] to [9] key and touch [🔍] button.
 - If the input track number does not exist or searching with a track number is not allowed, the screen image will not change.
 - Touch [🔍] button will close the numerical keypad.
 - Touch [🔍] button will close the option window and display playback screen.





11. USB VIDEO OPERATIONS

This system can play USB video files (MP4, 3GP etc.) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as an video device by simply copying desired video files into it.

Note:

- This system will not operate or may operate improperly with some USB memory.
- Files protected with any DRM cannot be played.

Notes on Using USB Memories

General notes

When a USB Device contains no supported files, the file list will display nothing.

Notes on the folder structure

The limitations on the folder structure are the same as those in USB Audio Player mode.

Notes on the Tag titles

The limitations on the Tag titles are the same as those in CD Player mode.

Select USB Video Mode

Connect your USB memory with video files to the USB connector. The system will automatically detect the connected device, and the [USB Video] button on main menu will be enabled.

- When an USB memory is already connected

Touch [USB Video] button on main menu to select the USB Video mode.

The system changes to the USB Video mode and starts playback from the previous position or from the beginning.

Note: This system has two USB connectors and can connect two USB devices.

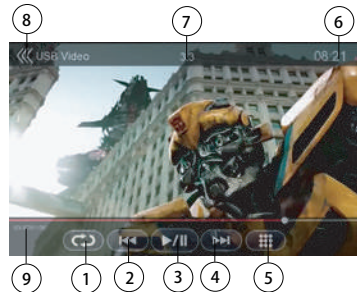
You can select the desired USB device by touching the list of USB root menu.

This system indicates the USB as "HCD0 USB Hard Disk", "HCD1 USB Hard Disk" on the list.

Playing Video Files in USB Memory

If the video is playing, touch the screen of the playing video to display Operation buttons.

- * The display will return to the playback screen, if you do not touch the screen for 10 seconds.



- 1 - Repeat button
- 2 - Previous Track / Fast Backward button
- 3 - Play / Pause button
- 4 - Next Track / Fast Forward button
- 5 - Menu List
- 6 - System time
- 7 - Playing file information
- 8 - Return button (to Main Menu)
- 9 - Elapse playing time indicator / Seek bar

Play/Pause Playback

1. Touch [] button to Pause playback.
2. Touch [] button to resume playback.

Switch to Previous/next file

Touch [] or [] button during playback to play previous /next file.

- Touch [] button to starts playback from the beginning of the next track.
- Touch [] button to starts playback from the beginning of the current track; when this button is touched again within about 5 seconds, playback starts from the beginning of previous track.

Repeat Playback

* The repeat set as the factory default is Repeat All.

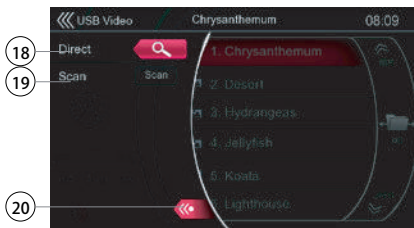
Touch the [] button once for Repeat Track, again for Repeat Folder, again for Repeat All.

Skip by Seek Bar

Touch the [] on seek bar and drag it to any position where you want to start playback.

Switching USB Video Menu

Touch [] button playback will be paused, and the screen will switch to USB Video List.



- 1 - Previous Track / Fast Backward button
- 2 - Play / Pause button
- 3 - Next Track / Fast Forward button
- 4 - Song title
- 5 - Previous Folder button
- 6 - Current Folder button
- 7 - Next Folder button
- 8 - System time
- 9 - Bluetooth status indicator
- 10 - Total Time
- 11 - Shuffle button
- 12 - Return button (to Main Menu)
- 13 - Repeat button
- 14 - Playback status indicator
- 15 - Album information
- 16 - Elapsed playing time
- 17 - Option button
- 18 - Direct button
- 19 - Scan button
- 20 - Close option menu

Play/Pause Playback

*On USB Video menu screen, playback status is paused.

Touch [] button to resume playback. The screen will go to video screen automatically

Switch to Previous/next file

Touch [] or [] button during playback to play previous /next file.

- Touch [] button to starts playback from the beginning of the next track.
- Touch [] button to starts playback from the beginning of the current track; when this button is touched again within about 5 seconds, playback starts from the beginning of previous track.

Repeat Playback

* The repeat set as the factory default is Repeat All.

Touch the [] button once for Repeat Track, again for Repeat Folder, again for Repeat All.

Shuffle Playback

1. Touch [] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

Current File Information Area

This area displays information of current video file: file name, number of current file/total number in current folder, Elapsed playing time/total time of current file.

Skip Using Seek Bar

Touch [] on seek bar and drag it to any position where you want to start playback.

Select a Folder on Display List

This operation is same as this in USB Audio mode.

Select a File on the Display List

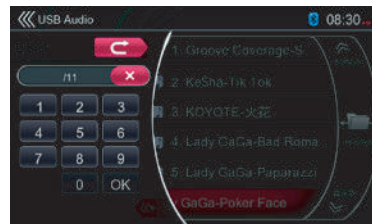
This operation is same as USB Audio mode.

Scan the Files

This operation is same as USB Audio mode.

Searching with the Track Number

This operation is same as this in USB Audio mode.

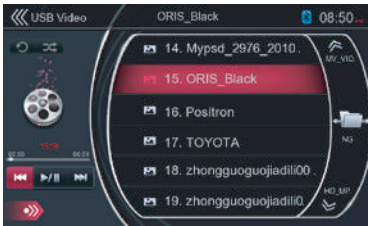


This system can play USB picture files (JPG, BMP... etc.) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as a picture device by simply copying desired picture files into it.



PLAY PICTURE FILES IN USB MEMORY

In USB Video mode touch the folder with picture files, for example [HONGKONG] in below case.



Current File Information Area

This area displays information of current picture file: file name, number of current file/total number in current folder.



- 1 - Magnify button
- 2 - Previous Picture button
- 3 - Menu List
- 4 - Next Picture button
- 5 - Minify button

Previous / Next Picture Switch

Touch [Previous] or [Next] button during playback to play previous/next picture.

- Touch [Next] button to start playback of the next picture.
- Touch [Previous] button to start playback of previous picture.

Magnify / Minify Picture

Touch [Magnify] or [Minify] button during playback to magnify or minify current picture.

- Touch [Magnify] button to magnify the picture.
- Touch [Minify] button to minify the picture.



12. BLUETOOTH AUDIO PLAYER OPERATIONS

Some Bluetooth cellular phones have audio features, and some portable audio players support the Bluetooth feature. These devices will be called as “Bluetooth audio players” in this manual. This system can play audio data stored in a Bluetooth audio player.

Note:

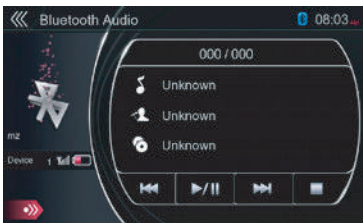
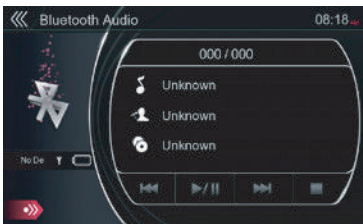
- This system will not operate or may operate improperly with some Bluetooth audio players.

Selecting the Bluetooth Audio Mode

- Touch the **[Bluetooth Audio]** button to select the Bluetooth Audio mode.

The system changes to the Bluetooth mode. If the connection with a Bluetooth audio player has been already established, you may select the Music function.

- When the connection with blue icon a Bluetooth audio player has been established, the **[BT]** icon is displayed at the top of the screen.



Bluetooth Audio Player Settings

You can confirm various information concerning about the Bluetooth Interface features.

- Touch the **[>>]** button to display the information on the screen.
- When you finish confirming the Bluetooth information, touch the **[<<]** button to return to the previous screen.



If you want to change the Pin Code setting of this unit, perform the following steps.

- The factory default setting is “0000”.

- Touch the text box of the Pin Code item to display the numerical keypad screen.

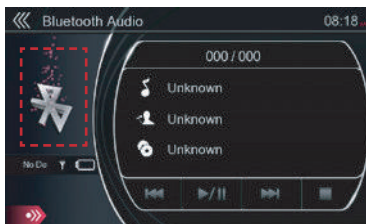


- Enter your desired 4-digit Pin Code, and then touch the **[OK]** button.

Registering your Bluetooth Audio Player (Pairing)

You can register up to 5 Bluetooth audio players.

- Turn on the power of the Bluetooth audio player you wish to register.
- Touch the Device button **[Device]** to display the Device Select screen.

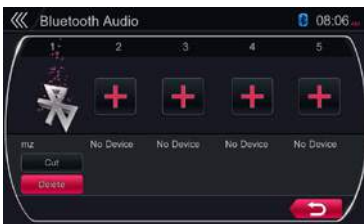


- Touch the **[+]** button to display the Inquiring Device screen.



4. Touch your desired device button and touch **Pair** button to register for the Bluetooth audio player.

When the pairing operation completes, the registered Bluetooth Audio Player is set as the current device, the display will return to the Bluetooth Audio mode screen.



To delete the Bluetooth Audio Player registration

1. Touch the **Delete** button to delete the device. A confirmation screen is displayed.



2. Touch the **Yes** button to confirm delete.

Selecting Bluetooth Audio Player

To change the current Bluetooth audio player to the other device which is already registered, perform the following operation.

1. Touch the device button to **[%]** display the Device Select screen.
2. Touch the currently connected device button, then touch the **Out** button to disconnect the active device.
3. Touch the desired Device button you wish to use. Touch **Connect** button to select it as your active device.
4. Touch the **Return** button to return to the previous screen.

Control the Bluetooth Audio Player

Note:

- Occasionally, depending on the environment, playback sounds may be fragmented, or switch noises may be generated.

Play Music

After the connection with a Bluetooth audio player is established, the play mode is automatically engaged.

- When playback is not started for some devices, touch the **Play/Pause** button manually.

Pause Playback

1. Touch the **Play/Pause** button during playback.
2. To resume playback, touch the **Play/Pause** button. Playback resumes.

Skip a Track (Search)

3. Touch the **Previous** or **Next** button during playback.

Stopping Playback

4. Touch the **Stop** button during playback. Tracks are stopped, touch the **Play/Pause** button to playback the first Track.



13. BLUETOOTH TELEPHONE OPERATIONS

When the connection with your Bluetooth-enabled cellular phone is established, the following functions are available on this system.

- Listen to your telephone calls on the car speakers.
- Answer to an incoming call.
- Make a call using the numerical keypad screen.
- Make a call using the Phone Book data in the selected cellular phone.
- Make a call using the history data of the dialed/received calls.

Note:

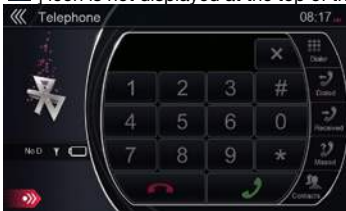
- Some cellular phones may not be able to transfer the phone book data to system.
- The phone book data transmission may take a long time. The operations of sending calls are disabled during the data transmission.

Select the BT Phone Mode

1. Touch the **[Telephone]** button to select the Bluetooth Telephone mode.

The Telephone screen is displayed.

- When no Bluetooth Telephone is connected, the **[BT]** icon is not displayed at the top of the screen.



- When the connection with a Bluetooth Telephone has been established, the icon **[BT]** is displayed at the top of the screen.

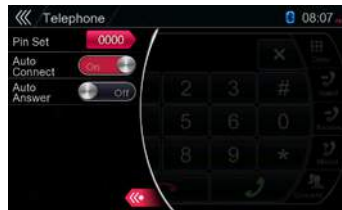


Bluetooth Telephone Settings

You can confirm various information concerning about the Bluetooth Interface features.

1. Touch the **[Settings]** button to display the information on the screen.
2. Perform setting for the desired item. See the following sections for detail.

3. When you finish confirming the Bluetooth information, touch the **[Back]** button to return to the previous screen.



Setting Automatic Connection

The system automatically reconnects the cellular phone after the connection is lost or the system is restarted.

- The factory default setting is "ON". Touch the **[ON]** or **[OFF]** button of the Automatic Connection item to set the function ON or OFF.

Automatic Answer Setting


If a call comes in, answer automatically after 5 seconds.

- The factory default setting is "OFF". Touch the **[ON]** or **[OFF]** button of the Automatic Answer item to set the function ON or OFF.




Registering Your Cellular Phone (Pairing)


You can register up to 5 cellular phones. The registering method is as same as "Register The Bluetooth Audio Player".

1. Turn on the power of the cellular phone you wish to register.
2. Touch the Device button [] to display the Device Select screen.




3. Touch the [] button to display the Inquiring Device screen.




4. Touch your desired Cellular button to select the button for the cellular phone to be registered, and touch [] button to register for the Bluetooth cellular phone.

When the pairing operation completes, the registered cellular phone is set as the current telephone, and the display returns to the Telephone screen.



- To delete the cellular phone registration
1. Touch the [] button to delete the device. A confirmation screen is displayed.



2. Touch the [] button to confirm delete.

Select the Cellular Phone

To change the current cellular phone to the other device which is already registered, perform the following operation.


1. Touch the [] button to display the Device Select screen.
2. Touch the currently connected device, then touch [] button to disconnect the active device.
3. Touch the desired Device button you wish to use. Touch [] button to select it as your active
4. Touch the [] button to return to the previous screen.

Obtain Phone Book Data


Sending the phone book data from the cellular phone enables you to make a call using the phone book function from this system.

Telephone Operations




Making a call using the numerical keypad

1. Touch the [] button to display the numerical keypad screen.
2. Enter the telephone number by using the numerical keypad displayed on the screen.



3. Touch the [] (Send) button to call the entered number.
- The following Telephone Interrupts screen is displayed during phone call.



- Touch the [] button to talk by using the cellular phone and canceling the hands-free function (Private Mode).
- Touch the [] button to mute the microphone. Now you can hear the other side, but the other side cannot hear you.
- 4. When the call is finished, touch [] button to hang up.

Note:



- Depending on some special cellular phone, the Telephone Interrupts screen may be closed and the connection with this system may be disconnected when entering the Private mode.


Making a Call Using the Phone Book

You can use the phone book data obtained from the cellular phone to make a call from this system.

Note:






- Before using this function, the phone book data must be sent from the cellular phone.
- Only the phone book items with at least one telephone number registered in the captured phone book data are displayed on the Phone Book screen.

1. Touch the [] button to display the Phone Book screen.
2. Touch the desired name button you wish to dial.
- Flick the list up and down to scroll the list.
3. Touch the [] button to call the specified number. The Telephone Interrupts screen is displayed, and calling starts.

- When the call is finished, touch the [] button to hang up.

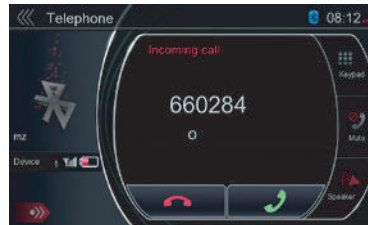
Making a Call Using the History

The system will memorize the Dialed/Received calls record data in the memory. You can confirm it and use it to make a call from this system.



1. Touch the [] or [] or [] button. The Dialed, Received or Missed Calls List screen is displayed.
- Flick the list up and down to scroll the list.
2. Touch the desired History item key you wish to dial.
3. Touch the [] button to call the specified number. The Telephone Interrupts screen is displayed, and calling starts.
- When the call is finished, touch the [] button to hang up.

Answering an incoming call

When a call comes in, the following Telephone Interrupts screen appears.



You can answer to the incoming call on this system by the following operation.

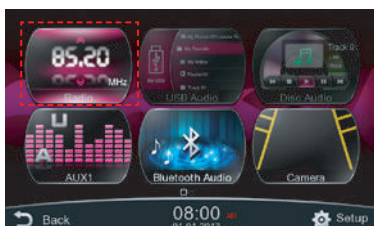
1. Touch the [] button to answer the call.
2. When the call is finished, touch the [] button to hang up.



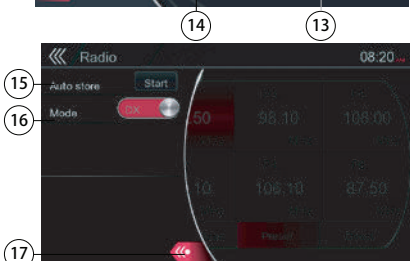
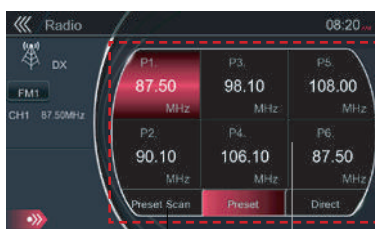
14. RADIO OPERATIONS

Listen to the Radio

1. Touch the [Radio] button on the Main Menu display. The Radio mode screen is displayed.



2. Touch the [FM1/FM2/FM3/AM1/AM2] button to select the radio band. Each time the button is touched, the radio reception band changes in the following order: FM1 -> FM2 -> FM3 -> AM1 -> AM2 -> FM1...



1. Band button
2. Current Channel indicator
3. DX/Local indicator
4. System time
5. Signal Strength indicator
6. Option button
7. Seek Up button
8. Current Frequency display
9. Seek Down button
10. Radio station scanning, click this button to search station starting with the current frequency and the station researching work would go on after 10 seconds.
11. [Preset] button. If the current page is in the preset station store mode (This button shows in highlighted red color), the click of the button would show nothing, if the current page is the direct mode (The button shows in red color), the click of the button will switch the page into preset station store state.
12. [Direct] button. If the current page is in the direct state (This button shows in red color), the click of the button would show nothing, if the current page is in the preset station state, the click of the button will switch the page into direct state.
13. Frequencies display
14. Preset Scan button
15. Auto Store setting
16. DX/Local Setting
17. Close option menu button
18. Return button (to Main Menu)

Seek Tuning

1. Touch the [FM1 / FM2 / FM3 / AM1 / AM2] button to select the radio band (FM or AM).
2. Touch the [Seek Up] or [Seek Down] button
 - When the [Seek Up] button is touched, the station is searched in the direction of higher frequency.
 - When the [Seek Down] button is touched, the station is searched in the direction of lower frequency.

Recalling a preset station

1. Touch the [FM1 / FM2 / FM3 / AM1 / AM2] button to select the desired band (FM or AM) on the radio.
2. Touch the [Preset] button to display the preset list, touch the preset station (1 to 6).



Manual memory

1. Touch the desired band button to select the band you wish to store.
2. Tune to a station you want to store using the seek tuning, step tuning, or preset tuning.
3. Touch and hold the desired Preset button you want to store for about 2 seconds.



Auto Store

The Auto Store is a function for storing up to 6 stations that are automatically searched in sequence. If the number of receivable stations cannot reach to 6, the previous stored stations remains.

1. Touch the [FM1 / FM2 / FM3 / AM1 / AM2] button to select the desired band (AM or FM).
2. Touch the  button, and then touch the  button to start the Auto Store.

A beep sounds and the stations with good reception are stored automatically to the preset list.

Notes:

After Auto Store, the previously stored stations will be overwritten.

Preset Scan

The Preset Scan receives the stations stored in the preset memory in order. This function is useful when searching for the desired station in memory.

1. Touch the [FM1 / FM2 / FM3 / AM1 / AM2] button to select the desired band. (FM or AM).
2. Touch the [Preset Scan] button to start the Preset Scan. The system starts scanning each station for 10 seconds sequentially. But the station stored is not a valid station, the scanning time is only 2 seconds.
3. When the desired station is tuned in, touch the [Preset Scan] button again to stay in that station.

DX/Local Setting

The DX/Local setting changes the radio sensitivity in order to separate closely spaced stations. This feature is useful in areas that have many radio stations in close proximity.



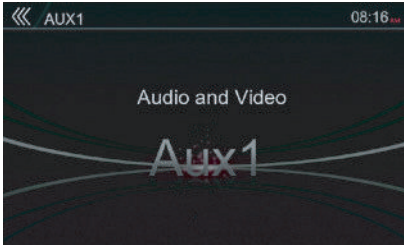
15. AUX

External audio/video devices, including a game console, camcorder, navigation unit...etc. can be connected to the AUX connector on the front or back of this system using the A/V media cables.

Switch to AUX IN

Touch [AUX1] or [AUX2] button on the Main Menu to select desired mode. If the external device connected to AUX input has audio signal, the system will broadcast audio of external device.

You cannot directly control external devices connected to AUX input.

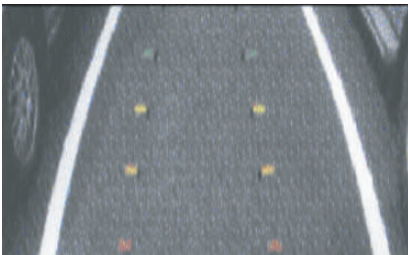
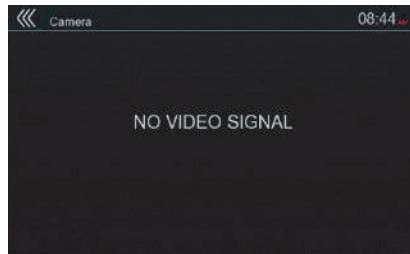


16. CAMERA INPUT OPERATIONS

Switch to Camera mode

Touch [Camera] button on Main Menu.

The screen will display the external camera video. The screen will display "NO VIDEO SIGNAL" message, if a valid camera is not connected to this system.



Note:

If the reverse cable is connected correctly to the vehicle or Furrion Multiplexer, the system goes to camera mode automatically when the reverse signal or left/right signal (only for Furrion Multiplexer) is turned on.



17. SETUP OPERATIONS

Touch the **[Setup]** button on the Main Menu screen. The Setup menu screen will be displayed.

General Setup Menu



Time Clock: Set system clock.



AM/PM: Set time in AM or PM.

Time Format: Set the time display mode.

Beep: Turn on or turn off the beep confirmation sound.

Bluetooth: Set the Bluetooth on or off.

Version: Display system firmware version.

Manual: Display manual.

Video Setup Menu



This menu includes: Brightness, Color, Contrast, and Saturation.

Brightness: Set Brightness value from 0 to 20.

Color: Set Color value from 0 to 20.

Contrast: Set Contrast value from 0 to 20.

Saturation: Set Saturation value from 0 to 20.

Audio Setup Menu



This menu includes: EQ.

EQ: Choose the desired volume for left and right, front and rear speaker.

Navigation Setup Menu



This menu includes: GPS Time and Time Zone.

GPS Time: Set the system time to be synchronized with GPS local time or not.

Time Zone: Set the time zone.

Voice NAVI: Set the voice mixed.

Others Setup Menu



This menu includes: Radio Region, Change Language, Wheel Key Study, Calibration, and Factory Default.

Radio Region: Set the Radio Region.



Change Language: Set the Language for Menu.

Wheel Key Study: Refer to “Wheel Key Study” section.

Calibration: Select the screen calibration Yes or No.

Factory Default: Select to load factory default or not.



18. REPLACE REMOTE CONTROL BATTERIES

1. Press the retention tab and pull out the battery tray and remove the old battery.
2. Insert the new CR2025 battery and slide the battery tray back in the remote control the same direction that you removed it. Please ensure the tray is inserted in the correct direction.

CAUTIONS

- Keep the battery out of the reach of children.
- Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.



19. TROUBLESHOOTING GUIDE

GENERAL

Problem	Cause	Solution
Unit will not power on.	Radio fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown	Install new fuse with correct rating
	Illegal operation.	Press the RESET button.
No/Low audio output.	Improper audio output connection.	Check wiring and connect.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Only one channel is playing.	Check the balance and fader adjustments.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections or replace the speaker cable.
	Mute is activated	Turn off the Mute function.
Poor sound quality or distortion.	Unauthorized disc is in use.	Use original disc.
	Speaker power rating not compatible with unit.	Connect proper speakers.
	Speaker is shorted.	Check speaker connections.

TFT SCREEN

Problem	Cause	Solution
No Image.	The parking brake is not engaged.	Stop vehicle in a safe place and apply parking brake.
	The parking wire was wrong or not connected.	Please connect the parking wire correctly.
	The "Monitor off" – function is activated.	Touch the monitor to activate the display.
Prolonged image or improper height / width ratio.	Improper aspect ratio setup.	Use correct aspect ratio setting.



TUNER

Problem	Cause	Solution
Weak station searching.	Auto antenna not properly connected.	Connect the auto antenna cable properly.
	REG function is activated.	Turn REG function off.
	The adapter with antenna power supply is not connected	Connect the antenna power supply adapter properly.
	The AF function is not activated.	Activate the AF function.

MP3

Problem	Cause	Solution
The ID3 tags are shown incorrectly.	Message is longer than LCD can display or ID3 tag is not compatible.	Use proper ID3 tag information.

CD PLAYER

Problem	Cause	Solution
Disc does not play back.	Disc is warped or scratched.	Use disc in good condition.
	Disc is dirty or wet.	Clean disc with soft cloth.
	Incompatible disc is used.	Use compatible disc.
	Laser pickup is dirty	Clean laser pickup with
	cleaning disc	
	Disc region code is not compatible with unit	Use disc with proper
Cannot insert disc.	Disc already inside out.	Eject current disc and insert new one.
Image blurred, distorted or dark	Disc is illegally copied	Use original disc

REMOTE CONTROL

Problem	Cause	Solution
Remote control does not function.	Battery is covered with insulation Touch	Pull out the insulation Touch
	Battery depleted	Replace battery with new one
	Battery installed incorrectly	Remove battery and install correctly



20. SPECIFICATIONS

FM Radio

Frequency Range: 87.5MHz to 107.9MHz (USA)
87.5MHz to 108MHz (Europe)
Usable Sensitivity: 15dBuV (mono), 26dBuV (stereo)
Stereo Separation: 22db (1 kHz)
Frequency Response (-3db): 50Hz to 12kHz

AM Radio

Frequency Range: 530KHz to 1710KHz (USA)
522KHz to 1620KHz (Europe)
Usable Sensitivity: 32dBuV

DVD Player System

Usable Discs: DVD Video Disc, Compact Disc
Frequency Response: 20Hz to 18kHz
Signal/Noise Ratio: 70dbA (1 W Ref)
Distortion: 0.3%
Video System: NTSC/PAL

Audio/Video Input

Audio Input Voltage: 650mV ≤ V RMS
Video Input Voltage: 1.0V p-p@75 Ohm
Audio Input Sensitivity (at 2V Output)
Mid: 650mV RMS

Audio/Video output

Video Output Voltage: 0.8~1.2V p-p@75 Ohm
Screen Size: 6.2"
Pixels: 1,152,000
Resolution: 800 x 480 x 3 (RGB)

Bluetooth

Specification: Bluetooth Version 2.1+EDR
Profile: A2DP (Advanced Audio Distribution Profile)
HFP (Hands-free Profile)
PBAP (Phone Book Access Profile)
AVRCP (Audio/Video Remote Control Profile)
GAVDP (Generic Audio Video Distribution Profile)
IOPT (Interoperability Profile)

USB

Specification: 2.0
Playable Audio Format: MP3, WMA
Playable Video Format, AVI, MP4, MPG/MPEG, 3GP

General

Power Source Voltage: 12VDC (10.5 to 16.0V allowable)
Ground: Negative
Auto Antenna Rated Current: 100mA less

Audio Amplifier

Maximum power output: 180W (45W x 4)
Speaker impedance 4 (4 to 8 allowable)

Note:

Specifications and design are subject to change without notice for further improvement.

FCC ID: 2ABH3-NV2200

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Furion Ltd.

NV2200

Model: NV2200

Rating: DC12V

Manufacturer: Furion Ltd.

Address: Units 1603-05, 16/F., Pacific Plaza, 410 Des Voeux Road West, Sai Wan, Hong Kong

**This product complies with US DHHS Standard
21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007 as a
Class I Laser Product.**

Made in China



21. WIRE CONNECTION GUIDE

Note:

- Before installing, be sure to disconnect the negative cable of the car battery.

