

OWNER'S MANUAL



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Features

- AM / FM Tuner
- USB/ iPod: 1
- Supports MP3, WMA, AAC, WAV, MPG, AVI
- Playlist
- Shuffle / Repeat
- Bluetooth phone
- Hands free
- Phonebook access
- Sound Adjustments
 - Bass, treble, balance, fader
 - 6 equalizer preset
- Voice control
- Steering wheel control
- Mobile phone connectivity

❑ Preface

The manual mainly introduces the functions, applications and operational methods of car audio-visual system product. The manual is only used as operation instruction for user but not basis for maintenance / service. As for product update, function update and changes of relevant parameters, supplementary statements will be otherwise provided without prior notice. For details, please contact with dealers.

❑ Tips

Picture example in the manual may be different from the actual picture. Content displayed in the picture may be different from the actual content. In addition, inherent nouns such as product name are the trademarks or registered trademark of each company.

Safety Information

Read this manual carefully before using this product. Keep this manual in the car to avoid losing it. When transferring this product to another party, be sure to include this manual.

For safe use of this product, the following symbols are used in this manual to indicate the items to be observed.

 Warning	Describes items that will result in death or serious injury unless observed.
--	--

For safety	
 Caution	☐ Describes items that will cause accidents resulting in serious injury unless observed. ☐ Describes items that may cause accidents, personal injury or damage to the car unless observed.

 Caution	• The driver should not look at the display nor operate the system while driving. Looking at the display or operating the system will distract the driver and will cause accidents. Always stop the car in a safe location and use the parking brake before looking at the display or operating the system. • Always comply with the indicated instruction when installing, removing or wiring the unit. Inappropriate installation or wiring may result in malfunction of the unit and will cause car fire. For safety reasons, please contact your dealer for advice on installation and removal of the unit. • Use the proper supply. This product is designed or operation with a negative grounded 12V DC battery system. Never operate this product with other battery systems, especially a 24V DC battery system. • Do not disassemble or modify the unit. Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer.
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Caution

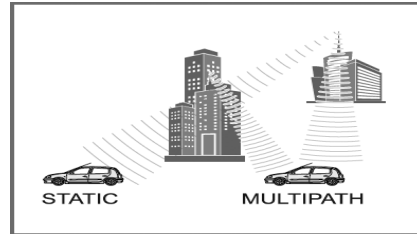
- Do not use the unit when it is out of order. If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells like reeking), turn it off immediately and consult your dealer.
- Refer the fuse replacement to the qualified service personnel. When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service personnel.
Incorrect replacement of the fuse may lead to smoke, fire or damage to the product.
- Keep the sound volume at an appropriate level.
Keep the volume level low enough to be aware of road and traffic conditions while driving.
- This unit is designed for use exclusively in automobiles.



Caution

- Do not operate the unit for a prolonged time with the engine turned off. Operating the audio system for a long period of time with the engine turned off will drain the battery.
- In standby mode, the device may drain the battery when the vehicle's engine is not running.
- Do not expose the unit to direct sunlight or excessive heat.
- Direct sunlight or excessive heat will raise the interior temperature of the unit, and it may lead to smoke, fire or other damage to the unit.
- Display may be affected due to reflection of the sunlight.
- Do not use the product where it is exposed to water, moisture or dust. Exposure of the unit to water, moisture or dust may lead to smoke, fire or other damage to the unit. Make sure that the unit does not get wet especially in car washes or on rainy days.

Notes on Use



When listening to FM broadcasts in a moving vehicle, the reception conditions constantly changes with buildings, terrain, distance from the transmitter and noise from other vehicles. The following phenomena of FM reception are normal and do not indicate a problem with the radio itself.

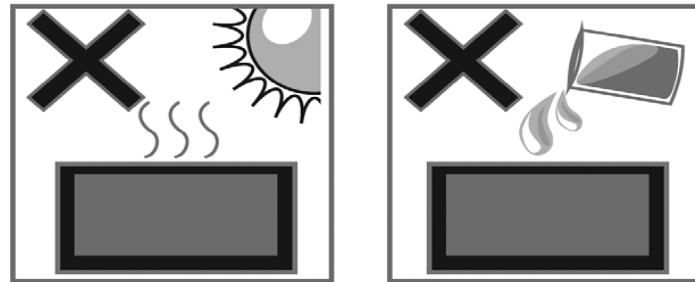
Notice

- **Fading and drifting:** The range of FM is about 40 km (25 miles), except for the high-power stations. If the vehicle moves away from the transmitter, the signal tends to fade out and/or drift. This is common to FM broadcasting and might be accompanied by distortion. Fading and drifting can be minimized by tuning to a stronger signal.
- **Static and flutter:** When the line-of-Sight link between the transmitter and vehicle is blocked by large building or the like, the broadcast sound may be accompanied by static or flutter. You may also experience fluttering while driving along a tree-lined road. The effects of static and fluttering on the sound can be reduced by decreasing treble.
- **Multipath:** Due to the reflection characteristics of FM signals, direct and reflected signals may reach the antenna simultaneously (this is called multipath) and cancel each other. As the car moves through such a spot, a momentary flutter or loss of reception may occur.
- **Station swapping:** When two FM stations are located close to each other in the frequency spectrum and the current signal is interrupted by an electronic dead spot caused by selected until the original signal returns. Station swapping can also occur as the vehicle moves away from a station and towards another with a stronger signal.

Before Using This Device

☐ This precision mechanical device should be handled carefully

Please avoid using this device at extremely high or low temperatures, which can cause malfunction or failure. Metal objects and liquids should not be in contact with the device, and hard shocks can damage the device.



<Clean the Unit>

- ☐ Do not use benzene, thinner, abrasive cleaners, spray cleaners, alkaline solutions, acidic or wax for cleaning the unit, which can damage the case.
- ☐ Do not use hard or sharp objects that could damage the protective pane or unit.
- ☐ If you use a chemical wiping cloth, follow the instructions carefully.

<Clean the Display>

- ☐ To clean the display, wipe it carefully using a soft, dry cloth, such as those used for cleaning plastic eyeglass lenses.
- ☐ Rubbing the display with a rough cloth can scratch the protective pane/display.

Getting Started

Operation button of front panel



- ① HOME
[Short press] Will be back to HOME page
[Long press] Power Off
- ② Volume Up
Volume Up
- ③ Volume Down
Volume Down
- ④ Voice Recognition
Activates Siri.

Power on / Power off

Some Functions of the main unit shall not work while the car is moving.
Please make sure to park your car in a safe place and pull up the parking brake before you perform these operations.

Function Summary

Multimedia is designed to present functions possessed by multiple connection devices and provide users with diversified utility function.

Functions Menu of the systems are as shown below:



- | | |
|-------------------|--|
| ① RADIO | : To listen to radio programs such as FM1, FM2 and AM. |
| ② AUDIO | : To listen songs via USB, iPod. |
| ③ USB VIDEO | : To watch video via USB. |
| ④ PHOTO | : Photo gallery via USB. |
| ⑤ NAVIGATION | : To enter navigation system. |
| ⑥ PHONE | : Bluetooth phone and phonebook. |
| ⑦ BLUETOOTH AUDIO | : Bluetooth audio play. |
| ⑧ CONNECTIVITY | : Mobile phone connectivity service. |
| ⑨ QUICK GUIDE | : User manual. |
| ⑩ SETTINGS | : Set product general, connection, camera and sound. |

Radio



- ① Step backward/forward : To change the channel frequency.
- ② Current Frequency : Frequency of the current channel.
- ③ Preset Memory Setting : Display the radio frequency.
- ④ Manual : The frequency is manually tuned in steps (Manual tuning).
 - ☐ DX Seek : Both strong and weak stations will be automatically tuned in (Automatic seek Tuning).
 - ☐ Local Seek : Only strong stations will be automatically tuned in (Automatic seek Tuning).
- ⑤ A.MEMO : Long press to automatically search and save 6 radio stations.
- ⑥ Band : Press icon BAND to switch bands between FM1, FM2, AM.
- ⑦ Home : Switch to Home screen.

[Preset Memory Setting]

- ☐ Select the radio band and tune in a desired radio stations you wish to store in the preset memory.
- ☐ Press and hold, for at least 2 seconds, any one of the preset memory setting (1 to 6) into which you wish to save the station.
 - The selected station is stored.
 - The display shows the band and station frequency memorized.
- ☐ A Total of 18 stations can be in the preset memory. (6 stations for each band: FM1, FM2 and AM)
- ☐ If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.

[Auto-Memory]

- ☐ Press BAND repeatedly until the desired radio band is displayed.
- ☐ The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 1 to 6 in order of signal strength, when the automatic memory has been completed, the tuner goes to the station stored in preset location No. 1
- ☐ If no stations are stores, the tuner will return to the original station you were listening to before the auto memory procedure began.

USB

[File system]

FAT 16 / 32, NTFS

Support storage size is up to 64GB.

Support format

- **USB Audio:** MP3 / WMA, Sampling rate ~ 48kHz, Bitrate 8kbps ~ 320kbps
AAC / WAV, Sampling rate ~ 48kHz
- **USB Video:** MP4 / AVI / MKV / WMV / MPG / MOV / MPEG
Max resolution: FHD (1080p),
Max framerate: 30fps
- **USB Photo:** JPEG / PNG / BMP / GIF, Resolution max 9000 x 9000 pixels

[Insert USB Memory]

Checking USB is displayed in the title area while the audio file in the USB memory is searched, and the loading animation is displayed on the bottom [Search] button.

For the first inserted USB

- 1) Since the search time of the file takes a long time, the first searched song plays.
- 2) File search time is about 30 seconds per 1000 files.

In case of USB inserted before

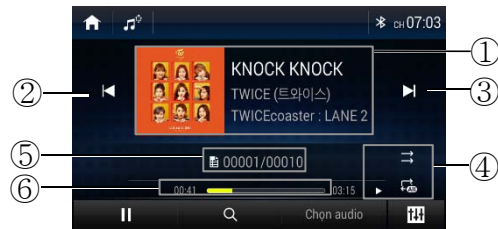
- 1) If the previously played song is in USB, the song is played. If not, the first song in the folder where the song was found is played.
If there is no folder, the first song to be searched is played.
- 2) File search time is faster than when inserted first, but when adding / deleting files in USB, search time is required as much as the number of files.

Max number of File: 10,000 files / Directory

Max number of directory: 5,000 subdirectory / Directory

USB / Audio

Press [Audio] on menu to enter USB music interface.



ACC OFF - The information of the track that was being played is saved.

ACC ON - The song that was played is played again.

LCD OFF / ON

Long press the [POWER] key, it will pause the song that was played and the LCD is turned off, and Short Press any hard key to resume the LCD and the song.

① **Song Information:** Title, Artist name, Album name

② **Rewind (RW):**

[Short press] : If the playback time is less than 1 second, the previous song will be played. If Repeat Mode is selected and the song order is the first in the file list, the last song in the previous folder will be played.

If the playback time is 1 second or longer, playback starts from the beginning of the song.

[Long press] : 5 seconds rewind.

③ **Fast Forward (FF):**

[Short press] : Play the next song.

If Repeat Mode and the order of the songs is the end of the file list, play the first song in the next folder.

[Long press] : 5 seconds fast.

(If the music left 5 seconds or less, will play next music)

④ Shuffle/Repeat mode

Shuffle Mode



Press the [Shuffle] to enable/disable 'Shuffle' play.

Repeat mode



Repeat all songs



Repeat in current file



Repeat current song

⑤ **File number:** Play list number / Total play list number.

⑥ **Playing progress bar:** Indicates the playing course of video; set the playing position of video by dragging.

SWIPE:

Swipe Left/Right: Play the Previous/Next song in the folder.

Swipe Up/Down: Skipping to previous/next folder.

USB / Video

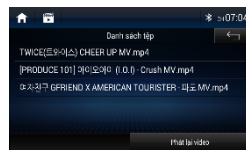
Press [Video] on menu to enter USB video interface.



Folder list



Video list



① **Current video file name set**

② **Rewind (RW)**

Short press: Play last video.

Long press: 20sec rewind.

③ **Fast Forward (FF)**

Short press: Play next video.

Long press: 20sec fast.

(If the video left 20 seconds or less, will play next video).

④ **File number:** Play list number/Total play list number.

⑤ **Playing progress bar:** Indicates the playing course of video;
set the playing position of video by dragging.

⑥ **Repeat mode**

 Repeat
all videos

 Repeat
current video

 Repeat in
current file

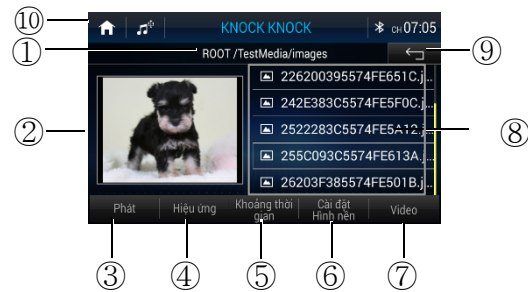
-
- ⑦ **Play/Pause:** Play/Pause the video.
 - ⑧ **Stop:** Stop the video.
 - ⑨ **Subtitle:** Change subtitle (available only when subtitle is shown in the video).
 - ⑩ **Visual:** Bright & Contrast setting.
Brightness & contrast of current visual by range -5 to +5.
 - ⑪ **Search:** Search the video file.
 - ⑫ **Setting:** Move to “Setting”.

Notice:

☐ *When first insert USB, the first video of all files will auto play. Otherwise, play the last played video.*

USB / Photo

Press [PHOTO] on menu to enter USB picture (list) interface.



- ① Current folder directory.
- ② Shrinkage display: Press this area to turn to full screen play.
- ③ Play: Slide show up, Pictures in the folder will up display.
- ④ Effect: Can choose display method.
- ⑤ Time Interval: Can choose display time per picture.
- ⑥ Set Wallpaper: Move to Wallpaper setting.
- ⑦ Video Select: Move to USB/Video.
- ⑧ File list: Slide up and down to shift the list for displaying the picture file.
providing the listed files can not be displayed in one page at one time.
- ⑨ Previous: Move to previous screen.
- ⑩ Move to Home screen.

Hands Free Phone Control

Note: For pairing phone's Bluetooth, the car should be stand still with Parking / Handbrake applied.

Bluetooth connection

Functions of BT phone are only usable under the status of Bluetooth connection.

Press [SETTINGS], [Connection], then select [Set Bluetooth Device] to choose connected device for pairing.



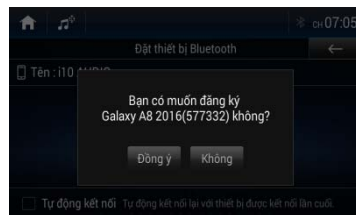
- ① Name of Bluetooth device which has been connected.
- ② Press to connect the corresponding Bluetooth device to HeadUnit.
- ③ Delete the corresponding Bluetooth device which is already paired.

Notice: Bluetooth can save maximum of 5 devices

Start pairing

Locate a new Bluetooth device to pair with HeadUnit.

Step 1: Using mobile phone (mobile device) to search local Bluetooth.



Display the pairing information of local Bluetooth on HeadUnit.

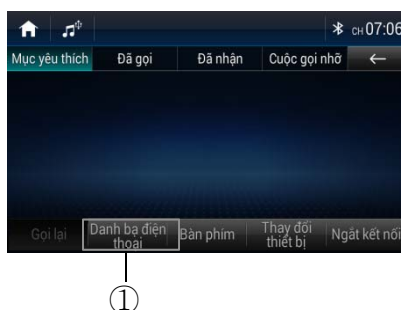
- ① Press [Yes] to connect.
- ② Press [No] to cancel pairing.

Step 2: Bluetooth connection is successful, and new Bluetooth device is added.

Phonebook Download

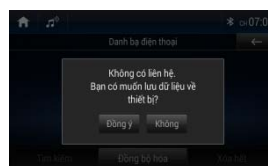
Press [PHONE] on menu to enter BT Phone.

Main unit can set up point connection with the mobile phone's bluetooth to enjoy hands free communication.



[PhoneBook]

- ① Press [phonebook] to download the phonebook.
Pop up the download information on headunit.



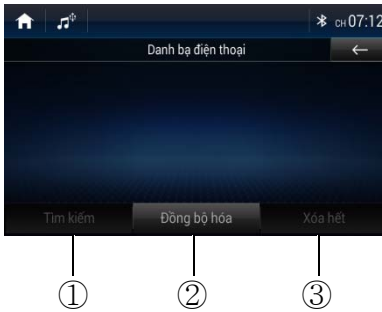
Press [Yes] to download.



Shows the contact list of phonebook.

- Slide up and down for page turning to display the position of identified letter in the list.
- Press  to call the corresponding phone number/contact person, and slide up and down to display the call records.
- Press  to delete the contact.

Press [No] to cancel the download.



- ① **Search:** User can use this option for searching the phonebook contact by entering the name and number.



- ② **SYNC:** This option updates the phonebook if the user has added or deleted some contacts.



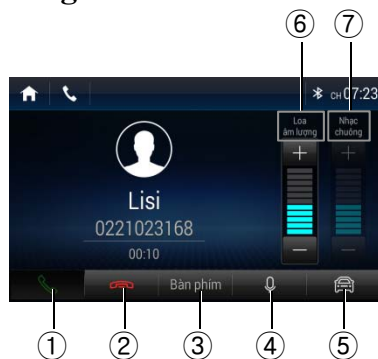
- ③ **Delete All:** If you want delete all contacts from Headunit, press on "Delete All".

Details



- ① **Redial:** For Redialing the last user called.
- ② **PhoneBook:** To access the phonebook.
- ③ **Keypad:** To dial contact number from the Head unit.
- ④ **Change Device:** To choose from the list of other devices paired via BT.
- ⑤ **Disconnect:** To disconnect the Bluetooth pairing from the device.
- ⑥ **Delete:** To delete the selected call log from the device.
- ⑦ **Call:** To call the selected contact from the list.
- ⑧ **Back:** To go to the Home Screen of the Head unit.
- ⑨ **Missed:** To see the Missed call log on the Head unit.
- ⑩ **Received:** To see the Received call Log on the Head unit.
- ⑪ **Dialed:** To see the Dialed call Log on the Head unit.
- ⑫ **Favorite:** To see the Favorites on the Head unit.

Incoming call



- ① **Call:** To receive the call.
- ② **End Call:** To disconnect the call/reject answer the call.
- ③ **KeyPad:** To show the keypad.



- ④ **Microphone:** To mute/unmute the mic.
- ⑤ **Switch:** To swap the ongoing call from phone to headunit and vice-versa.
- ⑥ **Speaker volume:** To adjust the car Speaker volume.
(Range 0 to 11)
- ⑦ **Ringtone volume:** To adjust the Ringtone volume.
(Range 0 to 11)

Outgoing call



① **Outgoing Call:** Users can call through the List of options from the Dialed/Received/Missed or by pressing the Keypad option and typing the numbers manually.

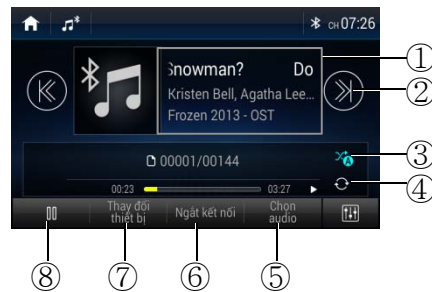
② **Delete:** Delete the contact number from the list.

Caution : It might be hard to hear the voice when the wind directly hits the microphone, such as the state of open and closed window or condition of A/C vent. In that case please adjust the air vent or close the window.

Warning: If you are using a Truecaller application then please clear your SPAM contacts from your phonebook otherwise it may interfere in the AVN's Smooth working.

Bluetooth Audio

Press “Bluetooth Audio” on the Home Screen to enter Bluetooth music.



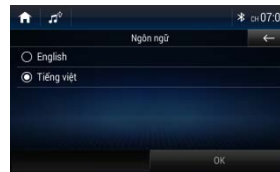
- ① Display the song's name being played, along with singer and album information.
- ② **FF/RW:** Play the previous or next song.
- ③ **Shuffle:** To Activate shuffle mode.
- ④ **Repeat:** To Activate the Repeat mode.
- ⑤ **Audio Select:** To Select source option between USB and iPod.
- ⑥ **Disconnect:** To disconnect the device from head unit.
- ⑦ **Change Device:** To choose from the list of other devices paired via BT.
- ⑧ **Pause:** To pause or play the song.

Notice: Forward/Rewind/Repeat/Shuffle functions may not work depending on the ARCP version and operation of the phone.

Setting - General



① Language:



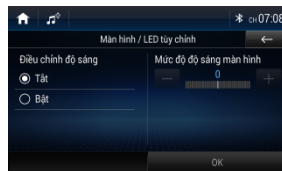
- Text Language : Chinese, English

② Wallpaper And Theme:



- Select from 4 image colors: [Amber], [Blue], [Green] and [Red]
- Press [User Image] to set the picture for wallpaper. Press the picture file name, then press [Crop] to select the area, then press [Set Wallpaper]. Press [Back] to exit.

③ Screen/LED Customize:



- Dimmer
 - Off: Screen Dimmer Level is disabled, however automatic adjustment shall happen as per interior lighting.
 - On: Enable Screen Dimmer Level, and adjust the value with the button.
- Screen Dimmer Level: Brightness of the screen (Range -15 to 15)

④ Clock Display In 24H Format: Sets the device to display time in a 12-hour or 24-hour format.

⑤ Device Information:



1) **Version Information:** Press to show current version information.

2) **Warranty/Copyright Information:** Press to show Open source licenses.

3) **Restore Factory Setting:** You can restore the factory setting at any time.

a. Press [Restore Factory Setting]

b. Remind message will be indicated in the popup to ask keep continue the factory setting.

c. Press [Yes] if you wish to reset to the factory default settings.

Press [No] to back.



Setting - Connection



- ① **Bluetooth Information:** Press to show the Name and Address of Bluetooth.
- ② **Set Bluetooth Device:** Press to enter Bluetooth setting interface.

See details in page 18 of Bluetooth setting function.

- 1) Press to connect/disconnect Bluetooth.
- 2) Press in the box to check for Automatically reconnect to last connected device.
- 3) On: Activate Bluetooth Audio
Off: Deactivate Bluetooth Audio
- 4) On: Activate Bluetooth Phone – System will ask to download the phonebook, if you didn't download before.
Off: Deactivate Bluetooth Phone
- 5) Press to delete Bluetooth connect details of the phone.

Notice: Bluetooth will disconnect when you deactivate both of Audio and Phone.

- ③ **Auto Answer Bluetooth Incoming Call:** It activates the auto answer mode (of the phone connected with head unit's Bluetooth) in which the call will be auto answered within 5 seconds.
- ④ **oncar Display:** Enable/Disable oncar Display.

Setting - Camera



① Visual Adjust:



1) **Camera Preview:** Can check the actual camera screen after setting the value.

2) **OK:** The value of each item is stored only when press OK.

3) **Adjust value of Brightness, Color or Contrast:**

Range: -15 to 15

-/+ key and progress bar can be manipulated value.

-/+ key can be repeatedly incremented or decremented.

4) **Back:** Back to previous screen.

② Camera Interrupt Sound:

Activated: Make a beep when display camera view on the screen.

Setting - Sound



① EQ Presets:



Default setting as [FLAT]. Can adjust the value by “POP”, “ROCK”, “CLASSICAL” and “JAZZ”.

② Fader / Balance:



- 1) -/+ key and progress bar on between two keys can manipulate the value.
-/+ key can be repeatedly incremented or decremented.
- 2) L(Left)/R(Right) or F(Front)/R(Rear) key to adjust the position of acoustics and sound effect.
- 3) Yellow Ball to adjust the position of acoustics and sound effect.
- 4) Press to restore the position of acoustics and sound effect to center point.

③ Graphic EQ:



Can manipulate the value of band with focus.

- Each band range: -7 to 7
- -/+ key can be repeatedly incremented or decremented.
- Press Preset 1-3 to save the value.

④ Volume:

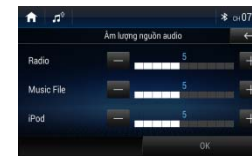


1) Feedback Volume:



Key: Range 0 ~ 7

2) Source Volume:



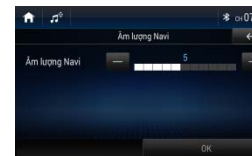
Radio: Range 0 ~ 11
Music File: Range 0 ~ 11
iPod: Range 0 ~ 11
Bluetooth Audio: Range 0 ~ 11
Aux: 0 ~ 11

3) Phone Volume:



Speaker Volume: Range 0 ~ 11
Ringtone Volume: Range 0 ~ 11

4) Navi Volume:



Navi Volume: Range 0 ~ 11

Notice: Only press Ok key, the value of each setting is stored.

⑤ **Defeat:** While active, disable EQ Presets and Graphic EQ

⑥ **Mute While Backing Up:** While activate, audio will be mute mode when the reverse gear is engaged.

Appendix

Supported USB file list

Video File

MKV	MPEG-1; MPEG-2, MPEG-4(XVID)
	H.263, H.264 (AVC)
	WMV7/8
	AVS
	VP8, VP9
	MJPEG
MP4	MPEG-1; MPEG-2, MPEG-4(XVID)
	H.263, H.264 (AVC)
	WMV7/8
	AVS
AVI	MJPEG
	MPEG-1; MPEG-2, MPEG-4(XVID)
	H.263, H.264 (AVC)
	WMV7/8
	AVS
MPG	MJPEG
	MPEG-1; MPEG-2, MPEG-4(XVID)
	H.264 (AVC)
	WMV7/8
	AVS

Video File

WMV	MPEG-1; MPEG-2, MPEG-4(XVID)
	H.263, H.264 (AVC)
	WMV7/8
	AVS
	MJPEG

Resolution: FHD(1080p) / Frame rate: 30 fps

* Do not support 10-bit encoding.

Audio File

MP3	
WAV	
WMA	
AAC	

Photo File

JPEG, GIF, PNG, BMP

Resolution: 9000 x 9000 pixels

* Do not support "animation GIF".

Specifications

MONITOR

Screen Size	8"
LCD Type	TFT LCD
Operation System	TFT active matrix
Number of Picture Elements	1,152,000 pcs. (800 × 3 × 480)
Effective Number of Picture Elements	99% or more
Illumination System	LED

GENERAL

Power Requirement	13.2 V DC (9.8–16 V allowable)
Maximum output	49W
Rated Current Consumption	5A or Less
Operating temperature	-30°C to + 70°C (LCD -20°C to + 70°C)
Weight	1.61 kg

FM/AM

Tuning Range	87.5 – 108 MHz
Tuning Range	531 – 1,602 kHz

BLUETOOTH

BLUETOOTH Specification	Bluetooth V4.1+EDR
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FCC Warning

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum 20 cm between the radiator and your body.

This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

