

clarion

Display Audio System

OWNER'S MANUAL

Contents

1. PRECAUTIONS	4
2. CAUTIONS ON HANDLING	4
3. OPERATION PANEL	6
Functions of Buttons	6
4. Functions of Steering Wheel Remote Control Buttons	7
Control Buttons	7
5. BASIC OPERATIONS	8
Turning on/off the power	8
Switching Source Modes	8
Home Screen	8
Status Bar Display	8
Switch to Clock Display	8
Adjusting the Volume	8
Switching day/night mode	8
Mute Function	8
Radio Illumination	8
Parking Brake Safety	9
Video Output	9
Rear View Camera	9
6. RADIO MODE OPERATIONS	9
Listening to the Radio	9
Seek Tuning	9
Manual Tuning	9
RDS Text	10
TP Seek	10
Autostore	10
Storing Preset Memory	10
Recalling Preset Memory	10
7. RDS OPERATIONS	11
RDS (Radio Data System)	11
TA (Traffic Announcement)	11
Emergency Broadcast	11
PTY (Programme Type)	11
Volume Setting of TA, Emergency Broadcast, and PTY	12
AF (Alternate Frequency) Function	13
REG (Regional Programme)	13
8. USB MODE OPERATION	13
USB	13
About USB memory device	13
USB Digital Media Streaming	13
Hot plugging function	13
Connecting a USB memory/MTP device	14
Watching/Listening to a track with USB memory device	14
Unplug the USB memory/MTP device	14
9. USB VIDEO OPERATIONS	15
Showing video mode screen	15
Playing Video Files	15
Play/Pause Playback	15
Switch to Next/Previous Video	15
Fast Forward/Fast Backward Operation	15
Play Speed Operation	15
10. USB/MTP AUDIO OPERATIONS	16
Play/Pause Playback	16
Switch to Previous/Next File or track	16
Fast Forward/Fast Backward Operation	16
Repeat Playback	16
Random Playback	16
Album Artwork	16
Selecting a Track on the album view	17
Selecting a Track on the artist view	17
Selecting a Track on the folders view	17
Selecting a Track on the songs view	17
11. iPod/iPhone OPERATIONS	18
Select iPod Mode	18
Play/Pause Playback	18
Switch to Previous/Next Track	18
Fast Forward/Backward	18
Repeat Play	18
Shuffle Play	18
Selecting a Song from iPod Menu	19
Available iPod Categories	19
Supported iPod/iPhone Devices	19
12. Miracast OPERATIONS	19
Select Miracast Mode	19
Connecting to Miracast	19
13. Bluetooth® AUDIO PLAYER OPERATIONS	20
Select Bluetooth Audio Mode	20
Controlling the Bluetooth Audio Player	20
Playing Music	20
Play/Pause Playback	20

Contents

Switch to Previous/Next Track.....	20	User Manual.....	30
Fast Forward/Backward.....	20	Bluetooth Settings.....	30
Quick Connect.....	20	Bluetooth Function.....	30
14. Bluetooth® TELEPHONE OPERATIONS.....	21	Phonebook auto download Function.....	30
Introduction to Bluetooth® Technology.....	21	Bluetooth device manager.....	31
Select Phone Mode.....	21	Pairing with a phone.....	31
Voice Dialer.....	21	Manually connecting a phone.....	31
Keypad screen.....	21	Manually disconnecting a phone.....	31
Phonebook.....	22	Deleting a Bluetooth Device.....	31
Call log tab.....	22	19. TROUBLESHOOTING.....	32
Sync Tab.....	23	20. ERROR DISPLAY.....	35
Incoming call.....	23	21. SPECIFICATIONS.....	36
Call conversation.....	23		
Second incoming call.....	23		
Separate call conversations with 2 different numbers.....	23		
Joined call conversation with 2 different numbers.....	24		
Switching between call conversations.....	24		
End call during multiple call conversations.....	24		
15. AUX OPERATIONS.....	24		
16. APPLICATIONS.....	25		
Initializing Applications.....	25		
Switching from Applications to USB (MTP).....	25		
17. ANDROID AUTO™.....	26		
Initializing Android Auto.....	26		
Accessing Android Auto screen (by touch panel).....	26		
Accessing Android Auto (by physical buttons).....	26		
Exiting Android Auto display.....	26		
Switching from Android Auto to Applications.....	26		
18. SETTINGS OPERATIONS.....	27		
Select Settings.....	27		
Balance/Fader Adjustment.....	27		
Sound Effect Controls.....	27		
Custom Equalizer.....	28		
System Settings.....	28		
Display Adjustment.....	28		
Clock Adjustment.....	28		
Date settings.....	29		
Time zone settings.....	29		
General Settings.....	29		
About.....	30		

1. PRECAUTIONS

CAUTION

- As the driver, you are responsible for your safety and the safety of your passengers.
- Please do not operate the system while driving. Only operate the system only when the vehicle is parked at a safe place and the parking brake engaged.
- The driver should not play / watch any video sources and/or operate the unit's controls while driving. Please note that watching video sources and operating the unit while driving are prohibited by law in some countries.
- When driving please keep the Audio volume to a level at which external sounds can be heard.
- In the event that the unit's display does not display properly or the audio is inaudible, please stop using the unit and immediately consult your nearest authorized dealer or authorized service center for this unit. Please do not disassemble or modify this unit. It will void the unit's warranty and may cause an accidental fire, or electric shock to the user.
- In the event that foreign materials is inserted in the unit, or if the unit gets wet and emitting smoke or strange smells, please stop using the unit immediately and consult your nearest authorized dealer or authorized service center. Using the unit in this condition may cause an accidental fire or electric shock to the user.
- When replacing the fuse, please replace fuses with the same recommended specification. Using a fuse with a different specification may cause a fire.
- If the unit requires to be removed or reinstalled, please consult the nearest authorized dealer or authorized service center for this unit. The installation or removal of the unit requires an experienced skilled professional.

2. CAUTIONS ON HANDLING

Operation Panel

Please observe the following cautions.

- The units touch screen panel is designed to operate properly in the temperature range of 0° to 60°C.
- In extremely cold weather, the unit's display may refresh slower or display darker than normal, this is not a malfunction. The unit's display will return to normal when the internal temperature is back to the normal operating temperature.
- Please do not let any liquids to flow into the unit, as it may damage the internal circuitry and possibly cause a fire.
- Please do not place lit cigarettes near the units's display. Doing so may damage the display or cause a fire
- There may be small black and shiny spots inside the liquid crystal display panel. This is normal for LCD products.

USB Port

- Only USB memory sticks recognized as "USB mass storage class" will work properly in the unit
- In the event that a USB memory stick's data is lost or damaged when used in the unit, the unit's manufacturer shall not be liable for the loss or damage.
- It is recommend that the USB memory stick data is backed up before use in the unit
- If the USB memory stick is unreadable, please try removing and reinserting the USB memory stick
- Do not connect this unit's USB port to any external computer.

Cleaning

- Use a soft, dry cloth and gently wipe the dirt off. For tougher stains, use a neutral base detergent, which has been diluted in water. Apply it to a soft cloth and wipe the dirt off gently, and then wipe again with a dry cloth.
- Do not use benzene, thinner, car cleaner, etc., as these substances may damage the unit or cause the paint to peel.
- Leaving rubber or plastic based products in contact with the unit for long periods of time may cause stains.
- Cleaning the liquid crystal display (LCD) panel
- The liquid crystal panel tends to collect dust, wipe it off occasionally with a soft cloth. The LCD surface can be easily scratched, do not rub it with rough / hard objects.

About the registered marks, etc.

- Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple products identified in the badge, and has been certified by the developer to meet Apple performance standards.

Please note that the use of this accessory with an Apple product may affect wireless performance.

iPhone, iPod, Siri, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

- Android and Android Auto is a trademark of Google LLC.
- The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks is under license. Other trademarks and trade names are those of their respective owners.

- The terms Wi-Fi® and Wi-Fi CERTIFIED Miracast™ are registered trademarks of the Wi-Fi Alliance.

- This product contains open source software under various licenses including GPL version 2 and LGPL version 2.1. For full details, please visit <https://opensource.clarion.com/my/>.

Full details for all open source licensed programs included in this product are available within the product by opening:

Settings -> About -> Legal (Trademark, Licenses).

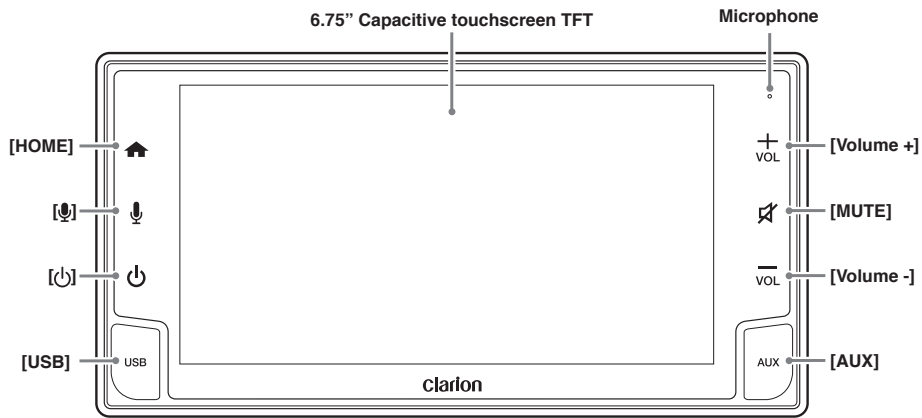
Note: Reverse engineering or disassembly of all software in the unit is strictly prohibited.

Disclaimer: Downloading or loading of unauthorized software into the unit may cause failure or loss. The manufacturer is not responsible for any damage or liabilities.

androidauto



3. OPERATION PANEL



Functions of Buttons

USB Port

- USB mass storage device/MTP/iPod/iPhone/Android device insertion.

[⏻]

- Press the button when the unit is turned off to turn on power.
- Press and hold the button to turn off the power.
- Press the button when the unit is turned on to toggle clock display off/on.

[🎤]

- Press the button to trigger Voice command / Voice dial

[HOME]

- Press the button when the unit is turned on to display Home Screen

Touch Screen

- Resistive touch screen display.

Microphone

- For handsfree.

[VOLUME +]

- Increase Volume
- Long press to trigger continuous volume increase

[MUTE]

- Mute/ unmute audio.

[VOLUME -]

- Decrease Volume
- Long press to trigger continuous volume decrease

AUX Input

- 3.5mm Auxiliary jack insertion

4. Functions of Steering Wheel Remote Control Buttons

Mode Button	Radio	USB1/ USB2 /iPod/ iPhone/ BT Audio	AUX	Phone			TEL		
				Keypad	Phonebook	History Dialled/ Missed/ Recent	Incoming Call	Outgoing Call	Call In Progress
SOURCE	Change valid Audio Source Mode (Radio → Audio USB1 → Audio USB2 → Audio Bluetooth → AUX → Video USB → Video USB2 → Radio...)						No function		
	*Turn off Monitor								
VOL+	Increase Media volume step by 1						Increase TEL volume step by 1		
	*Increase Media volume step continuously						*Increase TEL volume step continuously		
VOL-	Decrease Media volume step by 1						Decrease TEL volume step by 1		
	*Decrease Media volume step continuously						*Decrease TEL volume step continuously		
SEEK UP	Next Preset or Favourite Channel (Across band)	Next Track	No function						
SEEK DOWN	Previous Preset or Favourite Channel (Across band)	Previous Track							



* Press the button for more than 1 second.

5. BASIC OPERATIONS

Turning on/off the power

Note:

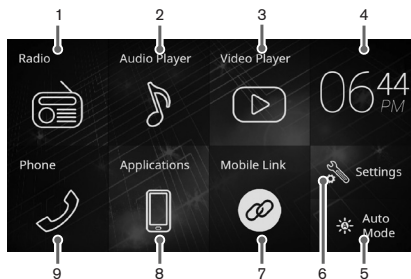
- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too much, you may not be able to start the engine and this can reduce the service life of the battery.

1. Press the [] button to turn on the power.
2. It automatically remembers its last source mode and will automatically switch to display that mode.
3. Press the [] button for more than 1 second to turn off the power of the unit.

Switching Source Modes

1. Press the [**HOME**] button to access the Home Screen.
2. Select any source mode to switch mode.

Home Screen



- 1) Radio button
- 2) USB audio / iPhone / iPod / Bluetooth audio / Aux button
- 3) Video / Miracast mode button

- 4) Clock display.
- 5) Day / Night / Auto mode button
- 6) Settings button.
- 7) Mobile Link button
- 8) Applications button
- 9) Phone button

Status Bar Display


The clock is displayed on the top left corner of the touch screen. To adjust the clock, refer to "Settings Operations".

The RDS indicator is displayed on the top right corner of the touch screen. To adjust RDS settings, refer to "RDS Operations".



- 1) Clock Display.
- 2) Connected Bluetooth device name.
- 3) Mute indicator. Lights up when audio is muted.
- 4) TA indicator
- 5) Bluetooth Network Signal strength indicator. Lights up when Bluetooth is connected to the unit.
- 6) Bluetooth battery level indicator. Lights up when Bluetooth is connected to the unit.
- 7) Bluetooth indicator. Lights up when Bluetooth is connected to the unit.

Switch to Clock display

1. Press the [] button to switch to clock display, while the audio is still heard in the background.

2. Press the [], [**HOME**] or [**VOICE**] button for the display to return to previous display.

Adjusting the Volume

Press the [**VOLUME+**] to increase the volume; Press the [**VOLUME-**] to decrease the volume. The volume will be displayed overlapping the touch screen for 4 seconds. Press any area of the touch screen to immediately cancel the volume display.



* The volume level is from 0 (minimum) to 40 (maximum). The factory default setting for this volume is "13".

Switching Day / Night mode

Press the Day / Night / Auto mode button to toggle the brightness of the touch screen in the following sequence:

Day → Night → Auto → Day...

During Auto mode, brightness of the screen will depend on illumination dimming switch.

Mute Function

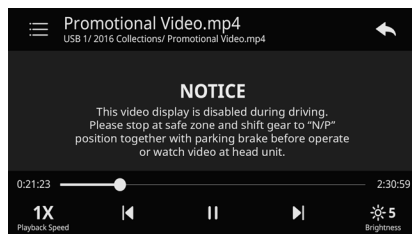
Press the [**MUTE**] button to activate the mute function. Press the button again to release mute.

Notes:

- The mute function is applied to both volume gains, but it cannot function while in a phone call.
- Mute will be released by phone call interrupts. Ongoing voice guidance from navigation applications will not release mute.

Parking Brake Safety

The video at the unit can only be displayed when the parking brake is enabled (when the car is parked). The audio portion of the video can still be played, but a notification screen will be displayed in place of the video display.



Video Output

If an external monitor is connected to the head unit, passengers in the back seat can watch the video separately.

Notes:

- The external monitor can only mirror videos from the USB connected to the unit.
- Mirrored videos can be displayed even if the parking brake is disabled (when the car is moving).

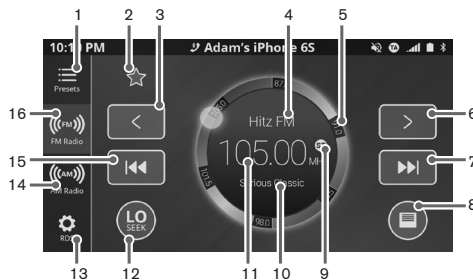
Rear View Camera

1. When the vehicle is set to reverse gear, the unit will display the rear view camera.
2. All video display will be disabled during rear view camera.
3. The system will return to the previous display after the reverse gear is released.

6. RADIO MODE OPERATIONS

Listening to the Radio

1. Press the button on the Home Screen to select Radio mode. The display will change accordingly.
2. Press the or tab to select one of the designated bands. Each time the button is pressed, the display will switch to the designated band.



- 1) Presets tab
- 2) Favourite station
- 3) Manual Seek down
- 4) Station Name display
- 5) Frequency bar
- 6) Manual Seek up
- 7) Auto Seek up
- 8) RDS Text
- 9) Stereo Indicator display
- 10) PTY Name display
- 11) Frequency display
- 12) DX/Local seek mode
- 13) RDS Tab

- 14) AM Radio tab
- 15) Auto Seek down
- 16) FM Radio tab

Seek Tuning

1. Press the **[DX/Local]** button to select the seek mode. The button display will change accordingly.

Every time the **[DX/Local]** button is pressed, the display will change:

DX → LO → DX...

Notes:

- There are 2 types of seek tuning: DX Seek and LOCAL Seek.
- DX Seek can automatically tune in to receivable broadcast stations; LOCAL Seek can tune in to only broadcast stations with good reception sensitivity.

2. Press the button to perform seeking in the direction of higher frequencies.
3. Press the button to perform seeking in the direction of lower frequencies.


Manual Tuning

1. Press the button to perform a single step in the direction of higher frequencies.
2. Press and hold the button to continuously search for higher frequencies.
3. Press the button to perform a single step in the direction of lower frequencies.
4. Press and hold the button to continuously search for lower frequencies


Notes:

- Manual Seek allows for manual tuning to any frequency regardless of broadcast.
- While continuously searching for a frequency, the speed does not increase.

RDS Text

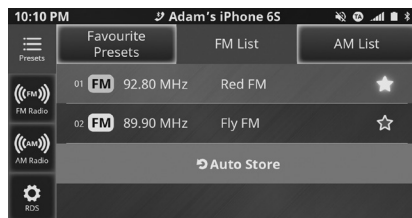
1. Press the  button to display RDS text for current station.
2. Press the **[Cancel]** button to close the RDS text message box.

TP Seek

1. When "TA" in the display lights up, press the  button to search for a TP station.
2. If a TP station is not received, the unit continues the search operation. Press the **[Cancel]** button to stop the TP station searching.



Note:

- For more details, refer to "RDS Operations".



Autostore







Auto store is a function for storing up to 20 stations that are automatically tuned in sequentially. If 20 receivable stations cannot be found then the remaining memory locations will retain the previous station selections.

1. Press the  tab to select the Preset channel list. The tab controls display will change accordingly.
2. Press the **[FM List]** / **[AM List]** button to select the desired band.
3. Press the  button to begin auto store. The first 20 stations received are stored automatically into the preset channels.

Storing preset memory

Preset memory function can store up to 20 stations: 20 stations for FM and AM.


Notes:

- The present memory will be reset after disconnecting the vehicle battery.
1. Press the  or  button to select the desired band.
 2. Press the  /  button to tune into a desired station.
 3. Press the  button to store the current frequency under Favourite Presets.
 4. Press the  button again to remove current frequency from preset station under Favourite Presets.
 5. If the list of preset channels is full, the unit will display a message to delete any unwanted stations.

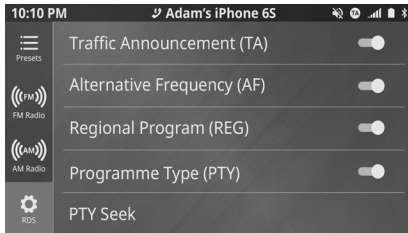
Recalling preset memory




1) Preset channel list.

1. Press the  button to select the Preset channel list. The tab controls will change accordingly.
2. A total of 20 preset positions exists to store individual radio stations in memory. Pressing the Station/frequency in the list recalls the stored radio frequency.

7. RDS OPERATIONS (If equipped)



RDS (Radio Data System)

Press the  tab to select the RDS Tab. The tab controls will change accordingly.

This unit has a built-in RDS decoder system that supports broadcast stations transmitting RDS data. This system can display the name of the broadcast station being received (PS) and can automatically switch to the broadcast station with the best reception as you move long distances (AF switching).

Also, if a traffic announcement or programme type is broadcast from an RDS station, no matter what mode you are in, this broadcast is received. Additionally, if EON information is received, this information enables automatic switching of other preset stations on the same network and interruption of the station being received with traffic information from other stations (TP). This function is not available in some areas.

When using the RDS function, always set the radio to FM mode.

The RDS feature consists of:

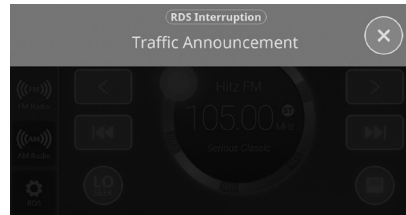
- TA : Traffic Announcement
- PTY : Programme Type
- AF : Alternative Frequency
- PS : Programme Service
- EON : Enhanced Other Network

- TP : Traffic Programme
- * RDS interrupt does not function during AM radio reception.
- * When set receives RDS signal, and can read PS data, PS Name appears in the display.


TA (Traffic Announcement)

In the TA standby mode, when a traffic announcement broadcast starts, the broadcast is received as high priority regardless of the function.


* This function can only be used when "TA" is lit in the display.



▪ Turning on TA


1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. In the RDS Tab, press "Traffic Announcement (TA)". "TA" will light up in the display and the unit is set to TA standby mode until a traffic announcement is broadcast.
3. When a traffic announcement broadcast starts, the display will change.

▪ Turning off TA



1. Press the  button to select the RDS Tab. The tab controls will change accordingly.

2. During TA standby mode, press the "Traffic Announcement (TA)". The "TA" indicator in the display goes off and TA standby mode is cancelled.

▪ Cancelling TA Interrupt


1. If you press the  button while a traffic announcement broadcast is being received, the traffic announcement broadcast reception is cancelled and the unit returns to the TA standby mode.

▪ Searching for a TP station

1. During TA standby mode and there is no traffic interruption on current station, press the  /  button, the unit automatically searches for a TP station.
2. If a TP station is not received, the unit continues the search operation. Press the **[Cancel]** button to stop the TP station searching.

Emergency Broadcast

If an emergency broadcast is received, all the function mode operations are stopped. The display will change accordingly.


1. If you press the  button while an emergency broadcast is being received, the emergency broadcast reception is cancelled and the unit returns to the previous mode.

PTY (Programme Type)


This function enables you to listen to a broadcast of the selected programme type even if the unit is on a function mode other than radio.

- * Some countries do not have PTY broadcast.
- * During TA standby mode, a TP station has priority over a PTY broadcast station.


▪ Turning on PTY

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. Press the “Programme Type (PTY)”, PTY standby mode is turned on. When the selected PTY broadcast starts, the display will change and the PTY item name appears in the display.


▪ Turning off PTY

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. During PTY standby mode, press “Programme Type (PTY)”, PTY standby mode is cancelled.

▪ Cancelling PTY Interrupt

1. If you press the  button while a PTY interrupt is being received, the PTY interrupt is cancelled and the unit returns to the PTY standby mode.


▪ Selecting PTY

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. During PTY standby mode, press “PTY List” to enter the PTY Selection Menu. The left display will change accordingly.
3. There are 29 PTY items that can be selected.

PTY Item	
ENGLISH	CONTENTS
News	News
Current Affairs	Current Affairs
Information	Information
Sport	Sports
Education	Education
Drama	Drama
Culture	Culture
Science	Science
Varied	Variety
Pop Music	Pop music
Rock Music	Rock music
Easy Listening Music	Easy listening music
Light Classical	Light music
Serious Classical	Classics
Other Music	Other music
Weather	Weather
Finance	Finance
Children's Programmes	For children
Social Affairs	Social affairs
Religion	Religion
Phone In	Phone In
Travel	Travel
Leisure	Leisure

Jazz Music	Jazz
Country	Country
National Music	National music
Oldies Music	Oldies
Folk Music	Folk music
Documentary	Documentaries

• Searching for a PTY station

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
 2. During PTY standby mode, Press “PTY Seek” to search for a PTY broadcast in the direction of a higher frequency.
- * If no station with the selected PTY broadcast can be received, the unit returns to the previous receiving station.

Volume Setting of TA, Emergency Broadcast, and PTY

The volume for TA, emergency broadcast, and PTY interrupts can be set during their respective interrupts.


- * The factory default setting is “15”

During TA, emergency broadcast or PTY interrupt, Press **[VOLUME+]** / **[VOLUME-]** to set the volume to the desired level (0 to 40).

- * When the interrupt ends, volume returns to the level it had before interrupt.


AF (Alternate Frequency) Function

The AF function switches to a different frequency on the same network in order to maintain optimum reception.

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. Press "Alternative Frequency (AF)", the AF function is turned on.
3. When AF function is turned on, Press "Alternative Frequency (AF)". and the AF function is turned off.

REG (Regional Program)

When the REG function is ON, the optimum regional station can be received. When this function is OFF, if the regional station area switches as you drive, a regional station for that region is received.

1. Press the  button to select the RDS Tab. The tab controls will change accordingly.
2. Press "Regional Program (REG)", the REG function is turned on.
3. When REG function is turned on, Press "Regional Program (REG)", the REG function is turned off.

Note:

- This function is disabled when a national station such as BBC R2 is being received.
- The REG function ON/OFF setting is only valid when the AF function is ON.

8. USB MODE OPERATION

USB

This system can play audio files (MP3/WMA/AAC/WAV) stored in an USB memory which is recognized an "USB Mass Storage Class device". You can use your USB memory as an audio device by simple copying desired audio files into it.

Mode	USB
File System	FAT 16, FAT 32

Notes:

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

About USB memory device

- USB is an acronym for Universal Serial Bus, and refers to an external bus standard supporting data rates of 480 Mbps.
- This unit is compatible with USB 1.1/2.0/3.0 with maximum data transfer rates of 480 Mbps.
- USB memory devices that can be played by connecting to the unit's USB cable are limited to those recognized as "USB mass storage class devices"; operation is not guaranteed with all USB memory devices.
- Devices compatible with "USB Mass Storage Class" can be used merely by connecting to the host device, without need for special drivers or application software.
- Consult the manufacturer of your USB memory device for information regarding whether it is supported by "USB Mass Storage Class" standards.
- To prevent the accidental loss of data, always back up important data on your computer.

- This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.
- When a USB memory device is composed of two or more drives, only one of the drives will be detected.
- USB memory devices with security functions cannot be played.
- The order in which tracks are recorded may differ depending on the USB memory device connected (the actual playback order may not be the same as that indicated on your computer's display).

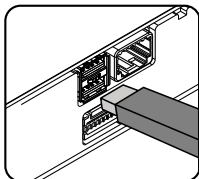
USB Digital Media Streaming

This unit supports USB Digital Media Streaming. USB Digital Media Streaming is a function used to play music files transmitted using Media Transfer Protocol (MTP).

Hot plugging function

This unit has the ability to recognize the changes of connecting and disconnecting an USB memory device/MTP device.

Connecting a USB memory/MTP device



1. Connect the USB memory/MTP device into the port with the correct direction.

- Always insert the USB memory/MTP device fully into the port. Incomplete connections may cause the USB memory/MTP device not be recognized.
- Depending on the number of tracks recorded, some amount of time may be required until all tracks are read into the unit. It will take some time to read the USB memory/MTP device before playback begins.
- USB memory/MTP devices may have different shape depends on brands. Some USB memory/MTP devices may not be able to plug into the port due to the shape design. Please use an extension cable instead.
- Please reconnect the USB memory/MTP device when it cannot be detected properly.

Note:

- Do not forcibly connect the USB memory device to the port with incorrect direction as this will damage the USB memory device as well as the USB slot.

Watching/Listening to a track with USB memory device

If a USB memory/MTP device have been inserted, press the **[HOME]** button to select the audio or video player mode.

Note:

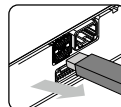
- If you reconnect the same device that you disconnected last, the system will playback where it left off.

CAUTION

- For safety driving purpose, avoid inserting the USB memory/MTP device directly into the USB port.
- Always backup and save important data on your computer.

Unplug the USB memory/MTP device

1. Remove the USB memory/MTP device from the USB slot during playback or reading. The unit will display "No Device".

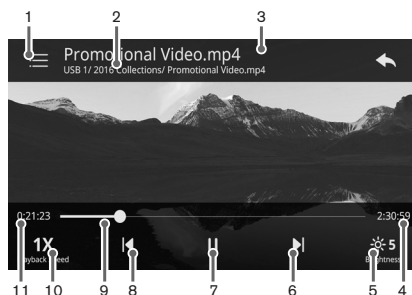


Notes on using USB memories/MTP device

- If the device has no supported files, "No File Available" is displayed.
- If you reconnect the same device that you disconnected last, the system will resume the last playback position.

9. USB VIDEO OPERATIONS

Showing video mode screen



- 1) Directory Button
- 2) Directory Path Display
- 3) Title Chapter Display
- 4) Total Playtime
- 5) Brightness
- 6) Fast Forward Button /Next Track
- 7) Play/ Pause Button
- 8) Fast Backward Button /Previous Track
- 9) Playtime Progress Bar
- 10) Playback speed
- 11) Current Playtime

Playing Video Files

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

- The display will return to the playback screen if you do not touch the screen for 7 seconds.
- During directory, you can directly select the option from the menu by pressing the option on the screen.

Play/Pause Playback

1. Press the button to pause during playback.
2. Press the button again to resume playback.

Switch to Next/Previous Video

1. Press the / button during playback to play previous/next video.

Fast Forward/Fast Backward Operation

1. Press the / button and hold more than 1 second to start fast backward/fast forward during playback. Release the button will continue playing with normal speed.

Note:

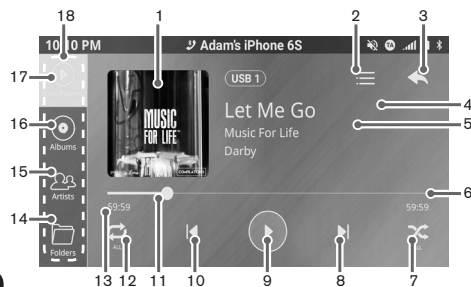
- The fast forward and fast backward speed may differ depending on the device.

Play Speed Operation

1. Press the button to toggle Play speed of the player.
2. Every time the button is pressed, the Play speed will change as:

1x → 2x → 4x → 8x → 16x → 32x → 1x...

10. USB/MTP AUDIO OPERATIONS



- 1) Album Art Display
- 2) Current track list
- 3) Back button
- 4) Title / Track name
- 5) Album name and Artist name
- 6) Total Playtime
- 7) Random Button
- 8) Next Track/ Fast Forward Button
- 9) Play/Pause Button
- 10) Previous Track/ Fast Backward Button
- 11) Playtime Progress Bar
- 12) Repeat Button
- 13) Current Playtime
- 14) Folders tab
- 15) Artists Tab
- 16) Albums Tab
- 17) Now Playing Tab
- 18) Songs Tab (Slide the menu upwards to view other tabs.)

Playing Audio Files in USB memory/ MTP device

Play/Pause Playback

1. Press the button to pause during playback.
2. Press the button again to resume playback.

Switch to Previous/Next File or track

1. Press the button during playback to play previous/next file.

Fast Forward/Fast Backward Operation

1. Press the button and hold more than 1 second to start fast backward/fast forward during playback. Release the button will continue playing with normal speed.
2. When fast forward reach the end of the track, the fast forward will be cancelled and go to next track.
3. When fast backward reach the beginning of the track, the fast backward will be cancelled and re-start the track.

Note:

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

Repeat Playback

1. Press the button to select the repeat status for playback. The text will change accordingly.
2. Every time the button is pressed, the repeat function will change as:

Repeat Off → Track Repeat → All Repeat

• Track Repeat

The current track will be played repeatedly.

• All Repeat

The tracks in current playlist will be played repeatedly.

• Repeat Off

Disengage the unit from repeat play.

Note:

- Repeat and Random cannot be turn on simultaneously. When Random been trigger, repeat function will be disable.

Random Playback

1. Press the Random button to randomly play the track during playback.
2. Press this button again to turn off the feature.

Note:

- Repeat and Random cannot be turned on simultaneously. When Repeat is triggered, random function will be disabled.

Album Artwork

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





1) Carousel view Button

2) Thumbnails view Button

Selecting a Track on the album view


This function allows you to select tracks from album view.


1. Press the  button to enter album view.
2. Press the Carousel view button to display in carousel layout, press the Thumbnails view button to display in grid view.
3. During Carousel view, slide the screen towards left or right to view others albums.
4. During Thumbnails view, slide the screen towards up or down to view others albums.
5. Select the album art will display the corresponding song list.
6. Press and hold the scroll bar, slide up or down to view other list from current view.
7. Select a song from the songs list and play.
8. Press the  button to go to previous level of album.

Selecting a Track on the artist view

This function allows you to select tracks from artist view.





1. Press the  button to enter artist directory view.
2. Select the artist from the artist list to switch to album view.
3. Press and hold the scroll bar, slide up or down to view other list from current view.

4. Select the album from the album list to switch to Song list view.
5. Select a song from the songs list and play.
6. Press the  button to go to previous level of album.

Selecting a Track on the folders view




- 1) Scroll bar
- 2) Folder List

1. Press the  button to enter folders directory view.
2. Select the folder from the folders list to switch to songs view.
3. Press and hold the scroll bar, slide up or down to view other list from current view.
4. Press the  button to go to previous.

Selecting a Track on the songs view



- 1) Alphabet list
- 2) Songs List

1. Press the  button to enter songs directory view.
2. Press the alphabet list, hold and move up or down, to search for desired alphabet, release to go to the first song with the desired alphabet.
3. Select a song from the songs list and play.

11. iPod/iPhone OPERATIONS

This section describes operations when connected to an Apple iPod/iPhone via the USB slot.

Notes:

- Read the iPod user manual for operation conditions.
- The unit may not operate properly with unsupported devices or unsupported versions.
- iPod/iPhone is only available for the front USB connection (USB1).



- 1) iPod directory tab
- 2) Album Art Display
- 3) Current track list
- 4) Back button
- 5) Title name
- 6) Album name and Artist name
- 7) Total Playtime
- 8) Random Button
- 9) Next Track/ Fast Forward Button
- 10) Play/Pause Button
- 11) Previous Track/ Fast Backward Button
- 12) Playtime Progress Bar
- 13) Repeat Button
- 14) Current Playtime

Select iPod Mode

When iPod is already connected

1. Press the button on the Audio Source Selection screen to select iPod mode. The display will change accordingly.
2. System will start playback from the last played track of the iPod.

Play/Pause Playback

1. Press the button to pause during playback.
2. Press the button to resume playback.

Switch to Previous/Next Track

1. Press button during playback to play previous/next file.

Fast Forward/Backward

1. Press and hold the button to start fast backward or fast forward during playback. Releasing the button will resume playback at normal speed.

Note:

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

Repeat Play

1. Press the button to select the repeat status for playback. The text will change accordingly.
2. Every time the button is pressed, the text will change as:

Repeat Off → All Repeat → Track Repeat → Repeat Off

• Track Repeat

Has the same behaviour as the ONE TRACK REPEAT status of iPod.

• All Repeat

Has the same behaviour as the ALL REPEAT status of iPod.

• Repeat Off

In this status, none of the tracks are repeated.

Note:

- Repeat Play for Audiobooks, Podcasts and iTunes radio will not be available.

Shuffle Play

1. Press the button to select the shuffle status for playback. The text will change accordingly.
2. Every time the button is pressed, the text will change as:

Shuffle Off → Shuffle On → Shuffle Off

• Shuffle On

Shuffle On is equivalent to Shuffle Songs in the iPod.

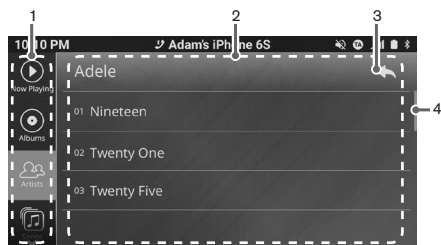
• Shuffle Off

Shuffle play is turned off.

Note:

- Shuffle Play for Audiobooks, Podcasts and iTunes radio will not be available.

Selecting a Song from iPod Menu



- 1) iPod directory tab
- 2) Category / Track list
- 3) Back button
- 4) Scroll bar

1. Select the desired iPod category from iPod directory tab. The display will change accordingly.
2. If desired iPod category is not in the tab, slide the iPod directory tab up or down to look for more iPod categories.
3. Select the desired category to go to the next level; press the button to return to the previous level of the selected category. Repeat steps 2 and 3 until the last level (song list).
4. If the desired item is not in the list. Slide up or down to view other list from current view.
5. Select the desired song at the last level of the category to play the track. iPod Menu will be exited automatically.

Available iPod Categories

Playlists
 Artists
 Albums
 Songs
 Genres

Composers
 Audiobooks*
 Podcasts*
 iTunes Radio**

* Availability depends on iPod
 ** Availability depends on Region

Notes:

1. During iTunes Radio Live station, all buttons will be disabled except Play/Pause button.
2. During iTunes Radio features station, all buttons will be disabled except Play/Pause button and Next Track button.

Supported iPod/iPhone Devices

Supported iPod/iPhone and compatible software version:

iPod/iPhone	Compatible Version
iPhone 7 Plus	iOS 11
iPhone 7	iOS 11
iPhone SE	iOS 11
iPhone 6S Plus	iOS 11
iPhone 6S	iOS 11
iPhone 6 Plus	iOS 11
iPhone 6	iOS 11
iPhone 5s	iOS 11
iPhone 5c	iOS 10.3.3
iPhone 5	iOS 10.3.3
iPod Touch 6th Gen	iOS 11

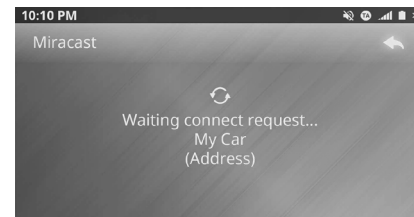
* The supported devices above were tested with the respective versions listed in the table. Other versions of the same devices may not work properly.

* For further details on device compatibility, please visit: <http://clarion.com/my/iop-compatibility>

12. Miracast OPERATIONS

Select Miracast Mode

Press the button to select the Miracast mode from Video source.



Connecting to Miracast

1. When the unit is waiting for a connection, connect to Miracast using a mobile phone.
2. After a successful connection is made, the system will mirror the phone's interface on the display screen.
3. Phone operations can be performed through the unit when connected by Miracast.
4. Miracast will be disconnected when switching source modes.

Notes:

- Miracast connectivity and availability depends on the phone.
- Miracast is not available while driving.
- Bluetooth is not available when Miracast is connected.


13. Bluetooth® AUDIO PLAYER OPERATIONS

Some Bluetooth mobile 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 properly with some Bluetooth audio players.

Select Bluetooth Audio Mode

Press the  button to select the Bluetooth Audio mode.



- 1) Album art
- 2) Back button
- 3) Title / Track name
- 4) Album name and Artist name
- 5) Quick connect Button
- 6) Next Track / Fast Forward Button
- 7) Play/Pause Button
- 8) Previous Track / Fast Backward Button


Controlling the Bluetooth Audio Player

Note:



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

Playing 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, press the  button manually.


Play/Pause Playback

1. Press the  button to pause playback.
2. To resume playback, press the  button.

Switch to Previous/Next Track

1. Press the  button during playback to play previous/next file.

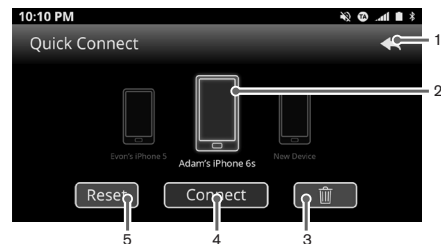
Fast Forward/Backward

1. Press and hold the  button to start fast backward or fast forward during playback. Releasing the button will resume playback at normal speed.






Notes:

- The fast forward and fast backward speed may differ depending on the Bluetooth audio players.
- The fast forward and fast backward function may not be available depending on the Bluetooth audio players.

Quick Connect



- 1) Back button
- 2) Selected device
- 3) Delete device
- 4) Connect / Disconnect device
- 5) Reset

1. Press the  button to connect the selected device.
2. Press the  button to delete all pairing Bluetooth information.
3. Press the  button to delete selected device.
4. Press the  button to disconnect current connected device.
5. Press the  button to pair with new device.

Notes:

- Refer to Device manager settings
- This operation is not available while driving.

14. Bluetooth® TELEPHONE OPERATIONS

Introduction to Bluetooth® Technology

Bluetooth® wireless technology is a radio technology that connects devices, such as mobile phones and headsets, without wires or cords over a short distance of approximately 10 meters (approximately 33 feet). Get more information at www.bluetooth.com.

• Hands-free Profile (HFP)

Allows user to perform hands-free operation with the connected mobile phone.

• Advanced Audio Distribution Profile (A2DP)

Allows high quality stereo music to be streamed from external audio player to this unit wirelessly.

• Audio/Video Remote Control Profile (AVRCP)

Allows user to control some basic playback functions of external audio player via this unit.


• Phonebook Access Profile (PBAP)

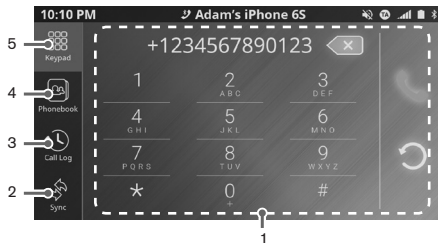
Allows exchange of mobile phone information such as caller ID, call history and list of contacts.

Note:

- Please check your phone's specification for supported profiles or consult with the nearest service centre for your phone compatibilities.

Select Phone Mode

1. Press the  button on the Home Screen. The display will change accordingly.
2. Press one of the tabs to select a specific setting category.
3. Press the [HOME] button to exit Settings and return to access the Home Screen.



- 1) Tab display. Differs with each selected tab.
- 2) Sync Tab
- 3) Call log Tab
- 4) Phonebook Tab
- 5) Keypad Tab

Voice Dialer

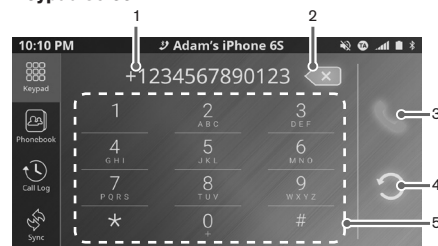
Note:

- This function is dependent on Bluetooth connected phone.

• Performing Voice Dialing





1. Press the [VOICE] button to activate voice dialing feature of the connected phone.
2. Press [VOICE] button again to cancel the voice dialing.

Keypad screen



- 1) Numbers Display
- 2) Delete Button
- 3) Call Button
- 4) Redial Button
- 5) Keypad


• Making a Call Using Key Pad

1. Press the  tab to select Key Input. The display will change accordingly.
2. Enter the telephone number by using the key pad displayed on the screen.
3. Press the  button to delete the numbers inputted one by one.
4. Press and hold the  button to delete all the numbers inputted.
5. Press the  button to call the entered number.

Note:

- This unit does not support Unstructured Supplementary Service Data (USSD). To perform USSD related functions, please do so on your phone.

• Making a Call Using Redial function

Press the  button to redial the last number.

Phonebook


You can use the Phonebook data obtained from the device to make a call from this unit.



- 1) Contacts List
- 2) Alphabetical Search Button

Notes:

- Only contacts stored in the memory of the phone will be synchronized in the unit's memory.
- The synchronization is limited to 1500 numbers for the paired phone.
- This unit only support VCARD 3.0 device. Device with other version of VCARD might not work properly.

1. Press the  tab in the top menu to select Phonebook. The display will change accordingly.
2. Press the desired name button to view the numbers stored in the contact.



• Alphabet Scroll

1. Select and hold the scroll bar, drag towards up or down to look for desire alphabet.
2. The alphabet will change according to the sequence. Release scroll bar when you reach your desired alphabet.



- Making a Call Using the Phonebook



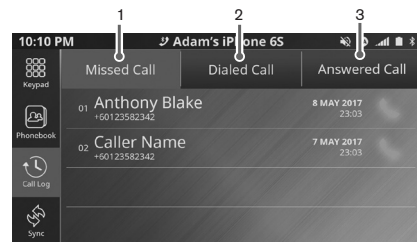
1. Press the  button beside the desired contact number to call the number.
2. Press the  button to return to the contacts list.

Notes:

- The search function only search for the first character of the contacts.
- If the characters cannot be found, it will search and display the following alphabet.



Call log tab

The system will memorize the Dialed/Received/ Missed calls record data in the memory. The data can be used to make a call from this unit.




- 1) Missed Calls
- 2) Dialed Calls
- 3) Answered Calls


- Making a Call Using the Call Log Tab

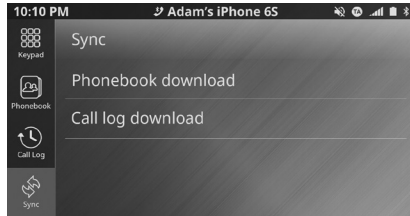
1. Press the  tab to select Call log. The display will change accordingly.
2. Press the [Missed Call] / [Dialed Call] / [Answered Call] button to view the numbers in selected category.
3. Press the  button beside the desired contact number to call the number.

Notes:


- The Call log list will be downloaded and updated automatically when switching to  tab.
- Maximum 20 phone numbers per category will be downloaded in this unit.

Sync tab

1. Press the  tab to manually sync the phonebook or call log.



2. Press "Phonebook download" or "Call log download" to manually download the contacts/call history from the connected mobile device.


3. Press the  button to cancel the downloading process.


Notes:

- Upon selecting "Phonebook download"/"Call log download", all existing contact information will be erased and replaced with the downloaded contacts.
- When the downloading process is being interrupted or cancelled, unit will only show the contacts which are already downloaded.
- The unit will only save the contact and call log information of the latest phone. If a previous phone is re-connected to the unit, all information will need to be downloaded again.

Incoming call

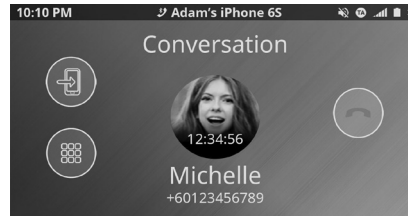







1. Press the  button to answer the incoming call.

2. When the call is finished, press the  button to hang up.

Call conversation

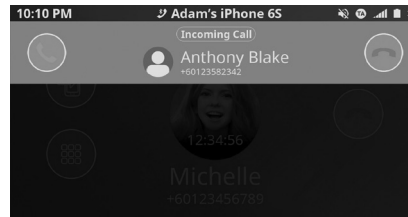
- The following Telephone interrupt screen is displayed during Conversation.





1. Press the  button to talk by using the mobile phone and cancelling the hands-free function (Private Mode). To return to the hands-free mode, Press the  button.
- 2) Press the  button to show the keypad. Press  button to hide the keypad.
- 3) When the call is finished, press the  button to hang up.

Second incoming call

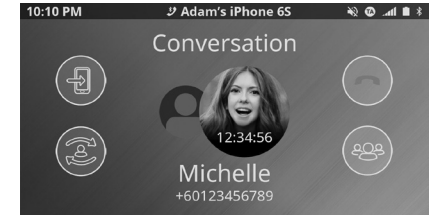
- The following Telephone interrupt screen is displayed during Second incoming call








1. Press the  button to answer the incoming call.
2. Press the  button to reject the incoming call.

Separate call conversations with 2 different numbers

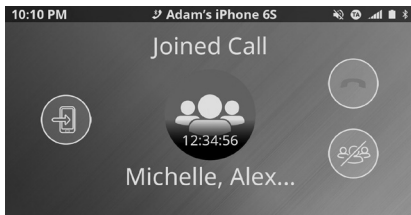
- The following Telephone interrupt screen is displayed during two conversation call







1. Press the  button to talk by using the mobile phone and cancelling the hands-free function (Private Mode). To return to the hands-free mode, Press the  button.
2. Press the  button to swap current active call with on hold call.
3. Press the  button to merged 2 conversation call.
4. When the call is finished, press the  button to hang up.

Joined call conversation with 2 different numbers

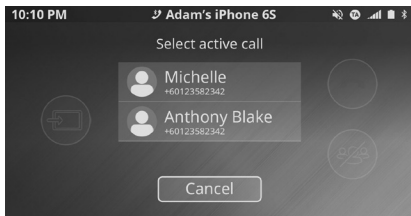
- The following Telephone interrupt screen is displayed during merged 2 conversation call




1. Press the  button to talk by using the mobile phone and cancelling the hands-free function (Private Mode). To return to the hands-free mode, Press the  button again.
2. Press the  button to select split call.
3. When the call is finished, press the  button to select the end call action.

Switching between call conversations

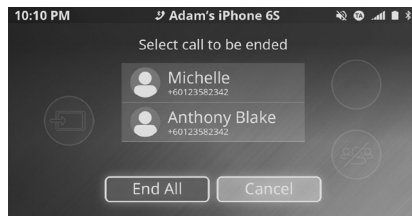
- The following Telephone interrupt screen is displayed during split call





- 1) Select your desired call as active call, the second call will be on hold.
- 2) Press  button to cancel split call and back to merged call display.

End call during multiple call conversations

- The following Telephone interrupt screen is displayed during end call selection




- 1) Select your desired call to be ended, system will switch to normal conversation mode.
 - 2) Press  button to cancel split call and back to merged call display.
 - 3) Press  button to end all call.
- Note:**
- Depending on the mobile phone, the Telephone Interrupt screen may be cancelled and the connection with this system may be disconnected when entering Private mode.

15. AUX OPERATIONS



This system has AUX input at the front panel where you can listen to sounds and music from external devices connected to this unit.

1. Connect the external music player to the AUX input.
2. Press the  button in the Audio Source Selection and select the AUX mode to access the AUX function.

Note:

- Use only 3.5mm stereo jack for the AUX input.
- Control keys (Play/Pause, Fast Forward, Fast Backward) are not available on this AUX function

16. APPLICATIONS



Initializing Applications

Notes:


- For safety purposes, please do not operate the smartphone while driving.
- Applications is powered by SmartDeviceLink™.
- Applications is only compatible with supported Android and Apple smartphones.
- Please make sure your smartphone is unlocked before connecting to Applications.
- To use handsfree function, please connect by Bluetooth.





- 1) App icon Button (Synced applications)
- 2) Help Button
- 3) Back Button

1. Connect a compatible smartphone device in the USB 1 Port.
2. When an iPhone or Android Devices is connected to the unit, Applications will sync the compatible applications from the device, and display them in Applications.
3. Press the  button on the Home Screen to access Applications.
4. Press the compatible application on your iPhone.
5. Press the  button to return to the previous display.

Notes:

- The compatible applications need to be installed on the smartphone device before connecting to the unit.
- Please refer to Quick Start Guide for supported applications.
- The system will take a few seconds to display the available applications.
- Please make sure the application is launched on the smartphone before launching the application on the unit.
- When Applications is connected, all the following connections are disabled:
 - o USB 1 music
 - o USB 1 video
 - o Mobile Link
 - o Miracast
- If Audio/Video player from USB 2 is equipped, this function is available to use.
- To check compatible applications, press the  button to display the QR code to access the link of compatible application.

Switching from Applications to USB (MTP - Android Smart phone)

1. While an Android Devices is connected to the unit by Applications, press the  button in Audio Source Selection, or press the  button in Video Source Selection.
2. Upon accepting the confirmation message, the unit will disconnect from Applications and connect to USB music or USB video, depending on the selected source mode.

Usage Tips

When using the car navigation application, you can:

1. Connect to a smartphone via the handsfree (refer to "Bluetooth® Telephone Operations").
2. Listen to music from your iPhone/iPod (refer to "iPhone/iPod Operations").

3. Re-enable the car navigation application.
- Go to Applications at the Home Screen.
 - Press the car navigation application to open the navigation map and view.

17. ANDROID AUTO™

Initializing Android Auto

Notes:


- To automatically connect to Android Auto, go to: **Home > Settings > System > Smartphone default connection > Android devices.** Select **Android Auto** as the default projection.
- Install the Android Auto application on the Android smartphone before connecting to the unit.
- Bluetooth Hands-free Profile will be connected to the Android device.

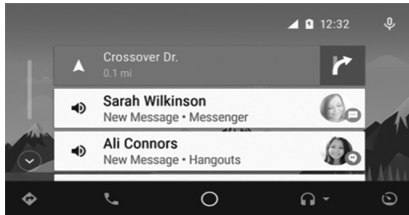
- When a new Android smartphone is connected to the unit via USB cable, Android Auto is immediately started. Android Auto UI will be automatically displayed.
- Bluetooth Hands-free Profile (HFP) will be paired and connected to the Android device automatically.


Note:

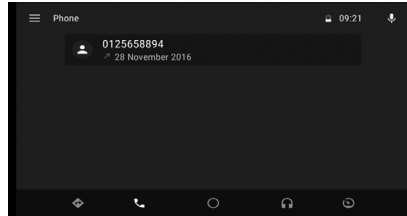
- For first time connection, the end user license agreement on the Android smartphone needs to be accepted before displaying Android Auto UI.
- Any existing Bluetooth HFP connections from other devices will be disconnected.
- If number of paired devices is at maximum, Mobile Link will display a message to delete one of the paired devices before proceeding.


Initializing Android Auto

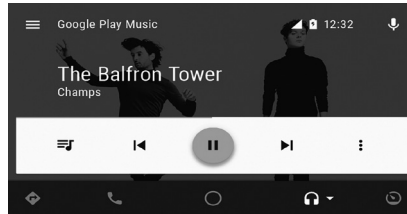
- On the Home Screen, press  to go to the Android Auto screen.



- On the Home Screen, press  to go to the "Android Auto telephony" screen.

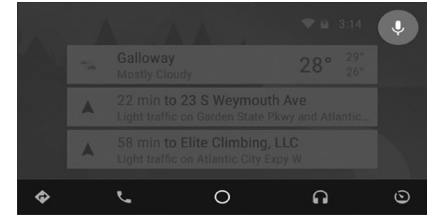


- In the audio source mode, press  to go to "Android Auto now playing" screen.



Accessing Android Auto (by physical buttons)

- Press the **[VOICE]** button to go to Google voice command display. Press the **[VOICE]** button again to exit Google voice command display and return to the previous display.




- Press the **[SOURCE]** button on the steering wheel remote control to toggle between audio music sources and to go to "Android Auto now playing" screen.

Exiting Android Auto display

- Press the **[HOME]** button to go to the Home Screen.

Switching from Android Auto to Applications



- While an Android phone is connected to the unit by Android Auto, press the  button on the Home Screen.
- Upon accepting the confirmation message, the unit will disconnect from Android Auto and connect to Applications.

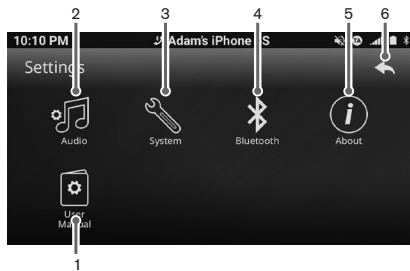
Note:

- If no compatible apps are available on the phone, there will not be a confirmation message to switch from Android Auto. The unit will remain connected to Android Auto.


18. SETTINGS OPERATIONS

Select Settings


1. Press the  button on the Home Screen. The display will change accordingly.
2. The audio of the current mode can be heard in the background. Audio volume will still be adjustable.
3. Press one of the top buttons to select a specific setting category.
4. Press the  button to exit Settings and return to the previous mode.

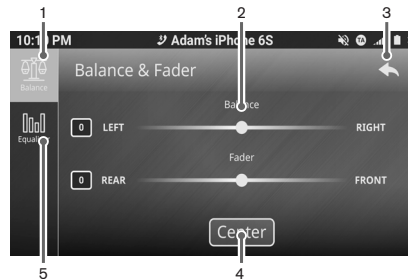


- 1) User manual
- 2) Audio settings
- 3) System settings
- 4) Bluetooth settings
- 5) About
- 6) Return Button

Press  button to make adjustment for Audio settings.


Balance/Fader Adjustment

Press the  button in the tab menu to select the Balance/Fader tab. The display will change accordingly




- 1) Balance/Fader adjustment
- 2) Pointer Display
- 3) Return Button
- 4) Center Buttons
- 5) Equalizer adjustment

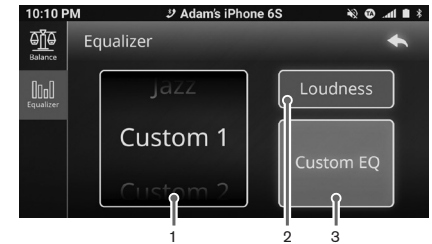
Adjusting the Balance

1. The adjustment range for balance is L12 to R12.
2. Press and drag the pointer for Balance to the right to emphasize the sound from the right speakers.
3. Press and drag the pointer for Balance to the left to emphasize the sound from the left speakers.
4. Press the  button to reset the balance to "CENTER".


Adjusting the Fader

1. The adjustment range for Fader is R12 to F12.
2. Press and drag the pointer for Fader to the right to emphasize the sound from the front speakers.
3. Press and drag the pointer for Fader to the left to emphasize the sound from the rear speakers.
4. Press the  button to reset the fader to "CENTER".

Sound Effect Controls



- 1) Preset Equalizer selection
- 2) Loudness on/off
- 3) Custom EQ settings

1. Press the  button in the tab menu to select the Equalizer tab. The display will change accordingly.

Preset Equalizer

1. Slide the Preset Equalizer selection upwards or downwards to select the next/previous preset settings.

2. The ascending order of the available preset tones is:

Flat → Rock → Classic → Pop → Jazz → Hip Hop → Custom 1 → Custom 2 → Flat...

Note:

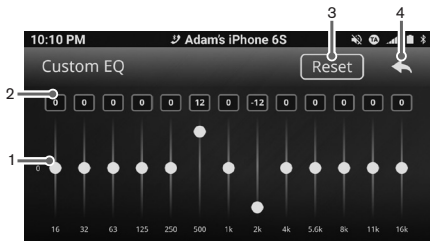
- Custom 1 and Custom 2 allow manual adjustment of the audio via a graphic equalizer.

Loudness Function

The loudness function amplifies the audio on the unit.

1. Press the **Loudness** button to toggle the loudness function on or off. The button display will change accordingly.

Custom Equalizer



- 1) Gain Pointer Display
- 2) Gain display in dB
- 3) Reset Button
- 4) Back Button

1. Press the **Custom EQ** button at the Equalizer menu. The display will change accordingly.

Notes:

- Graphic equalizer is only available if the Custom 1 / Custom 2 preset tone is selected.

- This operation is not available while driving.
- A series of 13 frequency bands are available for customization. The default gain for each band is 0. Each band has an adjustable range of -12 to 12.

2. Press and move the pointer at desired frequency upwards or downwards to adjust the audio gain.
3. Selected gain display for desired frequency will be changed accordingly.
4. Press the **Reset** button to reset each of the values to their defaults.
5. Press the **Back** button to return to previous screen.

System Settings

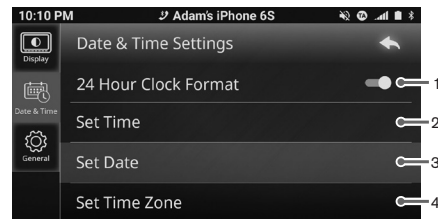
Press the **System** button to make adjustment for System settings.

Display Adjustment



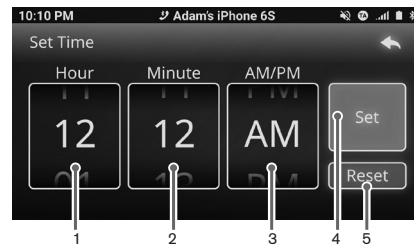
1. Press the **Display** button in the tab menu to select the Display tab. The display will change accordingly.
2. Press and move the pointer for Brightness towards right/left to change the brightness.
3. Press and move the pointer for Contrast towards right/left to change the contrast .
4. Press the **Reset** button to reset the Brightness and Contrast to default settings.

Clock Adjustment



- 1) 24-Hour Format on/off button.
- 2) Set Time Button.
- 3) Set Date
- 4) Set Time Zone

1. Press the **System** button in the tab menu. The display will change accordingly.
2. Press "24 Hour Clock Format" to toggle between clock format 12-Hour or 24-Hour display.



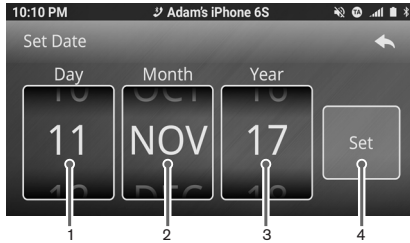
- 1) Hours adjustment.
- 2) Minutes adjustment.
- 3) AM/PM
- 4) Set
- 5) Reset

1. Press “Set Time” button to enter to clock settings display
2. Slide upwards or downwards at the Hours column to select the hour.
3. Slide upwards or downwards at the Minutes column to select the minutes
4. Slide upwards or downwards at the AM/PM column to change the time between AM or PM
5. Press **Set** button to save current clock settings.
6. Press **Reset** button to back to default value.

Note:

- AM/PM selection is only available in 12 Hour clock display.

Date Settings

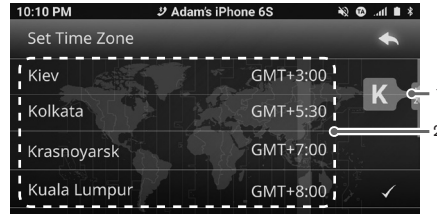


- 1) Date adjustment.
- 2) Month adjustment.
- 3) Year adjustment
- 4) Set date

1. Press “Set Day” to enter to date settings display
2. Slide upwards or downwards at the Day column to select the date.
3. Slide upwards or downwards at the Month column to select the month

4. Slide upwards or downwards at the Year column to select the Year
5. Press **Set** button to save current date settings.

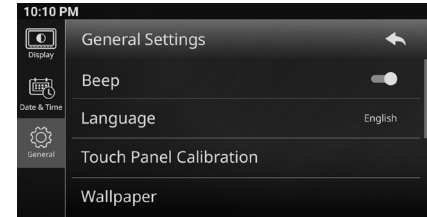
Time Zone Settings



- 1) Alphabetical Search Button
- 2) Time Zone list.

1. Press “Set Time Zone” to enter to Time Zone settings display
2. Press the alphabet list, hold and move up or down, to search for desired alphabet, release to go to the first time zone with the desired alphabet.

General Settings



1. Press the **Settings** button at the settings menu. The display will change accordingly.
2. Select the one of the listed items to perform customization of general settings.
3. Press the **Back** button to back to previous layer.

• Beep Function


The beep function produces a beep sound whenever any button with a valid operation is pressed.

1. Press “Beep” to toggle the beep function on or off. The button display will change accordingly.

• Language

1. Press “Language” to change the language.
2. Select the desired language from the settings.

• Wallpaper

1. Press “Wallpaper” to change the wallpaper.
2. Slide to the left or right to select the desired wallpaper.
3. Press  to set selected image as wallpaper.

• System Reset

1. Press “System Reset” in the General Settings menu.
2. Press [OK] to confirm system reset.
3. Press [Cancel] to return to previous display.

Notes:

- The system will restart after resetting.
- All previous settings on the unit will be reset.

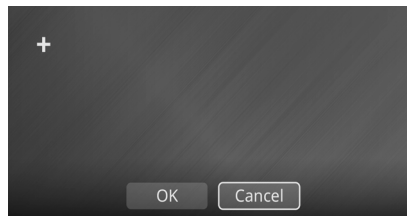
• System Update




1. Press “System Update” in the General Settings menu. When the update file is detected, a confirmation screen will be displayed.
2. Select [OK] to confirm system update.
3. Press [Cancel] to return to previous display.

Notes:


- The system will restart after updating.
- All previous settings on the unit will be reset.
- Please do not turn off the unit or engine during system update.

• Touch Panel Calibration




1. Select Touch Panel Calibration in the General Settings menu. The display will change accordingly.
2. Press the  target buttons in the order displayed on the unit.
3. Press the  button to save calibration adjustment.
4. Press the  button during the calibration process to cancel progress and return to the previous display.

About

1. Press the  button in the Settings menu. The display will change accordingly.
2. Press and move the display upwards or downwards to view the full information of the unit.


User Manual

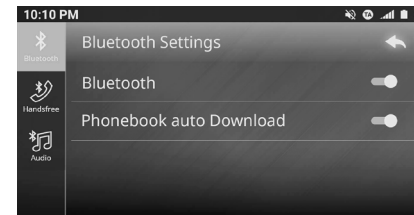
1. Press the  button in the Settings menu. Scan the QR code with your phone to download the user manual.

Note:

- You might need to download third party applications in order to scan the QR code.


Bluetooth Settings

1. Press the  tab in the settings menu to select Bluetooth Settings. The display will change accordingly.



2. Press the item in the list to select the desired operation.
 - Bluetooth settings
 - Device manager for Handsfree
 - Device manager for Bluetooth Audio

Bluetooth Function

1. Press the  button in the tab menu to select Bluetooth settings. The display will change accordingly.
2. Press “Bluetooth” to toggle the Bluetooth on/off feature.
3. When Bluetooth is turned off, Handsfree and Bluetooth audio will be disabled.



Phonebook auto download Function

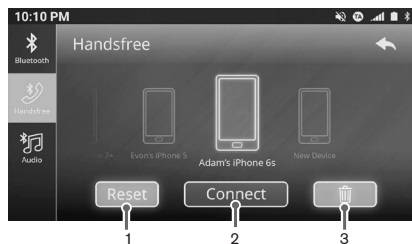
1. The Phonebook Auto Download feature allows the unit to automatically download the phonebook and Call log when connected to a device.
2. Press “Phonebook Auto Download” in the Bluetooth Settings tab to toggle the Phonebook Auto Download feature.

Note:

- Some phones may require user confirmation to download contact information. Please check your phone to allow the unit to download the relevant information.


Bluetooth Device Manager

1. Press the  button in the tab menu to select Handsfree. The display will change accordingly.
2. Press the  button in the tab menu to select Bluetooth Audio. The display will change accordingly.



- 1) Delete all devices
- 2) Connect / disconnect / pair device
- 3) Delete selected device

Pairing with a phone


1. Press the  button to add a new device. The display will change accordingly.
2. Turn on Bluetooth function on the mobile phone and set to discoverable mode before proceeding.
3. A list of discoverable devices will be available. Select the desired device to pair with the unit.
4. Perform either one of the methods below: **For phone that supports Simple Secure Pairing (SSP):** A random 6 digit passkey will be generated. Compare the passkey and make sure it is the same. Then, press **[OK]** on both the unit and phone.

For classic phone:

Enter the defined PIN code when prompt ("0000" by default).

5. Once pairing is successful, the phone will be connected automatically. Some phones may require manual connection from the phone.
6. The unit can pair to up to 5 phones.


Manually connecting a phone

1. Press the  button to connect to a paired device. The display will change accordingly.
2. Bluetooth indicator will be turned on when connection is successful.

Note:

- When the phone is connected, some additional Bluetooth indications will be displayed.



Manually disconnecting a phone

1. Press the  button to disconnect a connected device. The display will change accordingly.
2. Bluetooth indicator will be turned off when disconnection is successful.

Notes:

- Disconnection can also be done by turning off Bluetooth option, car ignition or directly from the phone.
- When the phone is out of range, Bluetooth will be disconnected. The system will automatically re-connect the phone (Handsfree) when it is within range (depends on Settings).

Deleting a Bluetooth Device

1. Select a desired device and press the  button to delete the paired device. The display will change accordingly.
2. A confirmation screen will be displayed on the unit.
3. Press **[OK]** to confirm, or **[Cancel]** to cancel the process.
4. To delete all devices simultaneously, Press  . All paired device will be deleted

Note:

- When the phone is connected, some additional Bluetooth indications will be displayed.

19. TROUBLESHOOTING

• General

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your nearest service centre.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Consult your nearest service centre.

• USB Device

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted in the wrong direction.	Reverse the direction of the USB device, and try again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "NO FILE AVAILABLE" shown.	No supported file is stored in the USB device.	Store supported audio files in the USB device.
Sound skips or is noisy.	Audio files are not encoded properly.	Use correctly encoded audio files.
Video images are not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.

• Bluetooth Audio

Problem	Cause	Measure
Cannot perform remote control for audio streaming.	AVRCP is not connected.	Disconnect and connect the device again. Pair the device again if necessary.
Audio streaming is choppy when using the connected phone.	This is due to excessive Bluetooth activity on a low bandwidth link. Some mobile phones will face this problem.	It is advisable not to use the mobile phone while the audio is streaming.
Cannot perform Bluetooth Audio connection	Some SmartPhone is not supported both USB connection and Bluetooth connection at the same time.	Unplug the USB connection and try to reconnect Bluetooth Audio again.

Bluetooth Telephone

Problem	Cause	Measure
System is not able to receive and make calls after being paired.	Bluetooth connection is not established yet. The unit will take several seconds to establish the connection after pairing. Some devices will not connect automatically after pairing.	Use the device to connect manually or enter Bluetooth Handsfree mode and manually reconnect to the last connected device.
		Power off the unit and pair the device again after deleting it from Bluetooth Handsfree mode.
		If the problem persists, try turning off the power on the device and perform a new pairing operation.
		Consult the nearest service centre regarding device compatibility.
The device cannot be connected.	The device pairing information may have been deleted from the unit.	Perform the measures above.
	The relevant profile is not selected on the device.	When selecting available profiles, select a profile with the handsfree feature. Otherwise, pair the device again after deleting it from Bluetooth handsfree mode.
Caller's voice sounds distorted or is intermittent.	Volume is too loud (depends on the car environment, speakers and microphone) and half-duplex mode is automatically triggered, when only one person can talk at a time.	Try reducing the telephone volume level.
Caller reports poor voice quality at remote end.		
Difficulties with pairing and connecting with a device during another Bluetooth operation such as audio streaming.	This is due to excessive Bluetooth activity on a low bandwidth link. This may result in difficulties with pairing and connecting.	Disconnect all devices. Try pairing with the device, and connecting manually later.
There is no sound output during conversation.	Bluetooth communication link is lost.	Disconnect and reconnect the device. If the problem persists, pair the device again after deleting it from Bluetooth handsfree mode.
The system does not operate correctly.	There is no response from the device.	Turn off the power of the device, then turn it on again.
Bluetooth is connected but unable to make calls.	Handsfree (HFP) may not be connected.	Make sure Handsfree (HFP) is connected by checking the display indication. Connect HFP from the device if allowed; otherwise try disconnecting and reconnecting the device again.
The connection is not stable.	The pairing process is still in progress.	Make sure Handsfree (HFP) and Audio (A2DP) are connected by checking the Bluetooth Settings (refer to "Bluetooth Settings").
		Please refer to the IOP list: http://clarion.com.my/iop-compatibility

• TFT Screen

Problem	Cause	Measure
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
The display is dark.	The Brightness control is too low.	Adjust the Brightness properly.
	The headlight of the vehicle is lit.	The display is made dark at night to prevent the glare (When the headlight of the vehicle is lit in the daytime, the display gets dark). Adjust the Brightness properly.

• Miracast

Problem	Cause	Measure
Miracast images are not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
There is no sound output	Miracast communication link is lost.	Disconnect and reconnect the device.

• Applications

Problem	Cause	Measure
Applications shows a fixed blank display, with no synced applications.	Device is not connected to the unit.	Connect a smartphone to the unit.
	The device is not compatible.	Use an Android Devices or iPhone with a compatible operating system.
	The USB cable is not working.	Only use the official Lightning USB cable and re-connect the smartphone to the unit.
Applications shows a fixed blank display, with a QR Code.	No compatible applications are found on the smartphone.	Install a compatible application to the Android Devices or iPhone and re-connect the smartphone to the unit. For more details, to the Applications section of the manual.
Synced application does not load when selected.	Communication issues with the smartphone and the unit.	Disconnect and re-connect the smartphone to the unit. And select the application again.
		Turn off and on the smartphone and re-connect to the head unit.
		Launch the application on the smartphone, and make sure the application is actively running on the smartphone.
The response of multi finger operation (Eg: Pinch-to-zoom gesture) is not good.	Slow response time from the smartphone.	Please refer to the IOP list: http://clarion.com.my/iop-compatibility

20. ERROR DISPLAY

	Error Display	Cause	Measure
USB Devices	DEVICE ERROR	The connected USB device is not supported.	If the USB device is frozen, disconnect it, and reconnect it again. Connect a proper USB device.
		An error occurred when controlling the USB device.	Disconnect the USB device, and reconnect it again.
		The device is connected via the USB Hub.	Disconnect the device, and reconnect directly to the USB connector of this unit without using the USB Hub.
	OVER CURRENT	Over-current or data error is detected.	Turn off the ignition switch, disconnect the device, restart the engine and reconnect it again. If the device is still not recognized, try replacing with a different device.
BT Audio	NO BLUETOOTH AUDIO	A2DP is not connected to the unit.	Disconnect and reconnect the device to the unit.

21. SPECIFICATIONS

FM tuner

Frequency Range	: 87.50 ~ 108.00 MHz
Usable Sensitivity	: < 18dB
Stereo Separation (1 kHz)	: > 18dB
Frequency Response (± 3 dB)	: 100Hz: 0 \pm 4dB, 7kHz :-10 \pm 6dB

AM tuner

Frequency Range	: 531 ~ 1629 kHz
Usable Sensitivity	: < 34dB

USB Port

Specification	: USB 2.0
File system	: FAT16, FAT32
Playable audio format	: MP3 (.mp3), WMA (.wma), AAC (.m4a), WAV (.wav)
Playable video format	: MPEG (.mpg, .mpeg), MPEG-4 (.mp4), H.264 (.mkv,.avi), WMV7/8/9 (.wmv)
Maximum current (USB 1)	: 1.5A
(USB 2)	: 1.0A
iPod/iPhone (USB 1 & 2)	: > 1A (Depends on phone)

Supported iPhone/iPod:

iPhone 7 Plus , iPhone 7, iPhone SE,
iPhone 6S Plus, iPhone 6S,
iPhone 6 Plus, iPhone 6,
iPhone 5S, iPhone 5C, iPhone 5,
iPod Touch 6th Gen

Supported Android OS versions

Android OS 5 and above

Screen

Screen size	: 6.75 inch
Pixels	: 2764800
Resolution	: 1280 (horizontal) x 720 (vertical) x 3 (RGB)
Touch type	: TFT Active Matrix Display

Bluetooth® Wireless Technology

Version	: Bluetooth® 4.1
Frequency Range	: 2.40 ~ 2.4835 GHz, ISM band
RF Power	: Class 2 (2.5 mW)
Profiles	: HFP 1.6, A2DP 1.3, AVRCP 1.5, PBAP 1.2
Operating Temperature	: -20°C ~ +60°C
Telephone Operation	: Noise reduction, echo cancellation, full duplex telephony, wideband speech

General

Power Source Voltage	: 10.8 V ~ 15.6 V
Current Consumption	: Less than 15A
Weight of the Main Unit	: 1.2kg
Dimensions of the Main Unit	: 178.0 mm Width X 100.0 mm Height X 133.7 mm Depth
Maximum Power Output	: 200 W (50 W x 4ch)
Operating Temperature	: -20°C ~ +70°C

