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ANDROID IN-CAR ENTERTAINMENT

S8 (Gen2)

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ATOTO

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Updated information (the latest system operation manual, system updates, new functions, etc.) is available from https://support.myatoto.com

System Operation Manual

Precaution

- This manual is applicable to all ATOTO S8 models (Gen2). Some functions mentioned in certain chapter of this manual is only available on selected ATOTO S8 (Gen2) models. New released S8 models may have extra functions that are not mentioned in this user manual.
- More information about panel operation, wiring connection and installation, as it relates to specific S8 models, please refer to specific documentation included in the package;
- The screenshot image provided in this manual may be different from what's displayed on current system. ATOTO may release new system update, which may include changes made, or new added functions that are not mentioned here. Users can contact support@myatoto.com to download latest Operation Manual;
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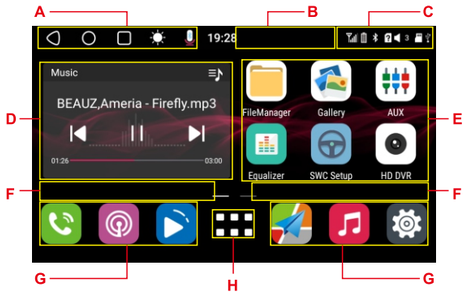
Content Index

Content Index

1. Home Screen,Drop-down Menu, Wallpaper & Widgets



[Figure 1]

1.1. Introduction of icons on the main menu:

Area A:

Click to go back to the previous menu or exit the current app.

Click to go to Home menu and the app will run in background.

Click to enter into background apps.

Click to adjust screen brightness (three level adjustments).

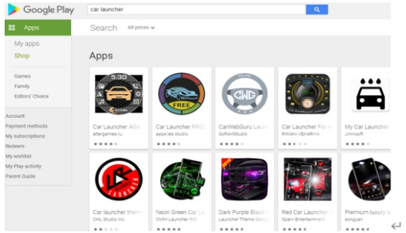
Click to wake up phone assistant via S8's Bluetooth

Area B: Drag downward to display more shortcuts and recent notifications.

Area C: Status bar for displaying phone signal and battery level, network connection, system volume, etc.
Area D: Widget on Home Menu. Detailed information of this feature is available in Chapter 1.4.3;
Area E: Shortcut of frequently used apps can be put in this area;
Area F: Press and hold this area for one second to enter into <Wallpapers> and<Widgets> menu;
Area G: Shortcuts of most frequently used apps can be put in this area for quick access;
Area H: Click to visit app list;

1.2. If you do not like the way these apps and shortcuts are displayed, you can install third-party Home launcher from Google Play Store (see Figure 2 & Figure 3). Certain customized functions may not work properly on non-system launchers.

[Figure 2]

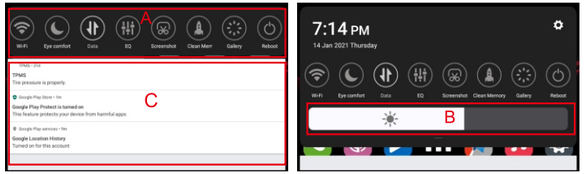


[Figure 3]

Recommended Home Launcher apps by previous ATOTO A6 Users:

- Car launcher AGAMA
- Car Launcher Pro
- Carwebguru launcher (Figure 3)
- Nova Launcher

1.3. About Drop-down menu:



[Figure 4]

(1).Area A

:WiFi. Click and hold for one second to enter WiFi Settings.

:Screenshot.

:Reboot. Click to let the system reboot.

:Data. Click and hold for one second to enter the Data Usage option. This option is only available on selected S8 models.

:Settings. Click to enter system settings.

:Clear Memory. Click to free system memory and speed up the system.

:Eye comfort. This icon allows the system brightness to be set to eye protection mode. Press and hold the icon to enter the detailed settings.

:EQ. It is a shortcut to enter the audio setup(including equalizer settings, etc) of the system.

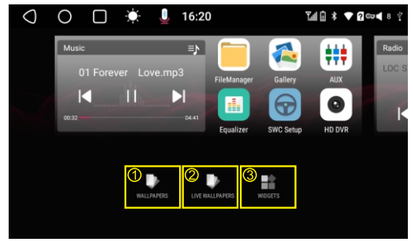
:Gallery(standby mode). Tap to enter into the standby mode. It will loop playback the pictures stored in the<Photo Folder>of the FileManager app. Refer to Chapter 9 for details.

(2). Area B: Brightness adjustment bar. Click or drag to adjust screen brightness.

(3). Area C: System & app notifications.

1.4. Wallpaper & Widgets

1.4.1 Enter into Wallpaper & Widgets settings
Press and hold Area F in Figure 1 for one second to enter into <Wallpapers> and <Widgets> menu (see Figure 5);

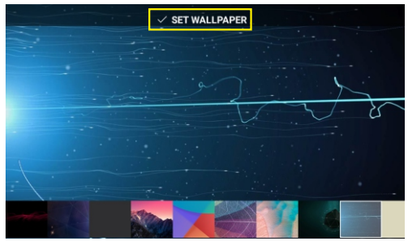


[Figure 5]

1.4.2. Set Wallpaper

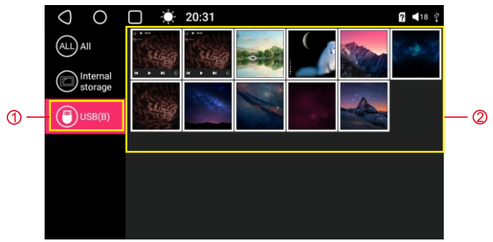
Two methods to set Wallpaper.

Method 1. Choose from preset wallpapers. Click ① or ② in Figure 5 to select from preset wallpapers (see Figure 6)

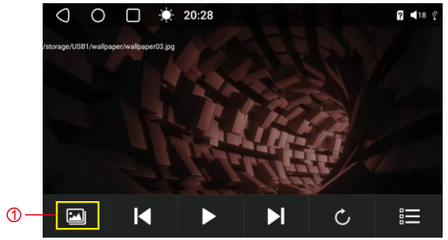


[Figure 6]

Method 2. Select from your own photo folder.



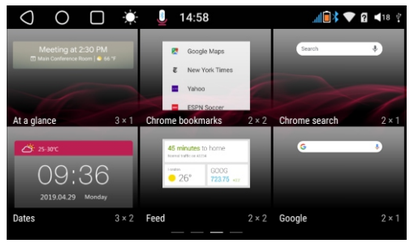
[Figure 7]



[Figure 8]

Prepare these images in a flash drive and use Gallery app, browse them, select desired one and apply it via in Figure 8. The resolution of images that are being set as wallpaper must be in 1024x600;

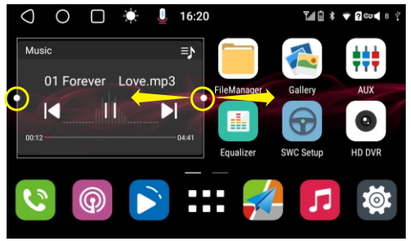
1.4.3. Set Widgets



[Figure 9]

1.4.3.1. Drag desired widget from widget list (Figure 9) to the place where you want.

1.4.3.2. Customize the size of the widget.



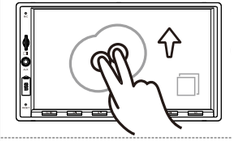
[Figure 10]

Press and hold the widget until it is selected (see Figure 10), then drag to adjust the size.

1.4.3.3. Remove the widgets: Press and hold the widget until appears in the middle at the top of the screen, drag the widget there to delete it.

1.5. Touch Screen Gesture

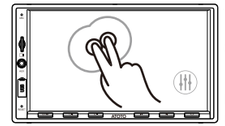
1.5.1. Touch screen gesture is a set of gestures to help users operate conveniently on the multi-touch screen.



Two-finger scroll-up

Operation: A two-finger scroll is a drag performed with two fingers making a quick down-and-up motion.

Function: To enter into multi-task menu.



Two-finger Tap

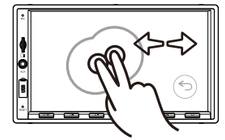
Operation: A two-finger tap is a tap performed with two fingers making two-times continuous tap.

Function: To open preset EQ and allow users to shift EQ mode among preset 9 EQ modes.

Two-finger scroll-down

Operation: A two-finger scroll is a drag performed with two fingers making a quick up-and-down motion.

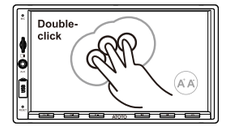
Function: To enter into main menu (Home) .



Two-finger scroll

Operation: A two-finger scroll is a drag performed with two fingers making a quick left-and-right or right-and-left motion.

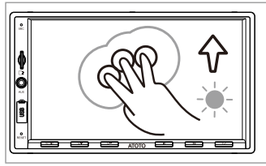
Function: To go back to the previous menu .



Three-finger tap

Operation: A three-finger tap is a tap performed with three fingers making two-times continuous tap.

Function: To shift font size among small、middle and large (On some apps it doesn't work).



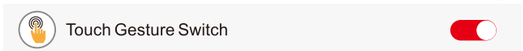
Three-finger scroll

Operation: A three-finger scroll is a drag performed with three fingers making a up-or- down motion.

Function: To adjust screen brightness.

Attention:
(1).Touch screen gesture may fail to respond on some apps such as map;
(2).Touch screen gesture may fail to respond if users' hand is wet or worn gloves;
(3).Function description for each gesture may change in future firmware updates based on user feedback.

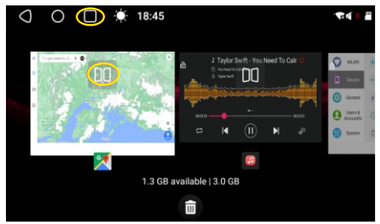
1.5.2. Enable/disable Touch screen Gesture feature in system settings.



(Path: System Settings>General>Touch Gesture Switch)

1.6. Split Display

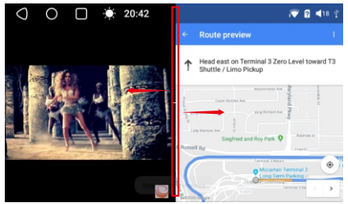
1.6.1. Enable Split Display



[Figure 11]

Step 1. Click ▣ in Figure 11 to enter into background apps(An app that is opened, and is running in the background).
Step 2. Find the desired app and then click ▣▣ to let it run on the left, then open the second app from the other background apps on the right side that you want to let it run on the right window.

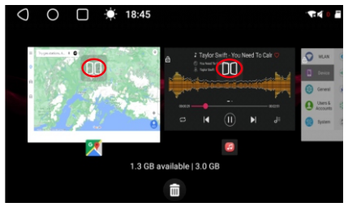
1.6.2. Exit Split display



[Figure 12]

Scroll left or right from the adjacent side of the two display (Figure 12) to a single-window display.

Note:
Only the app with a specific ▣ on it can support Split-Screen(see Figure 13); if there isn't a ▣ on the app when browsing on background apps, this means that this app does not support the split-screen display feature.



[Figure 13]

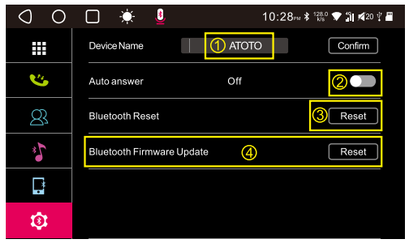
2. Bluetooth Handsfree & A2DP Music Streaming

2.1. Enter Bluetooth 1 via either one of below two icons

[Figure 14.1]

[Figure 14.2]

2.2. Bluetooth 1 Settings

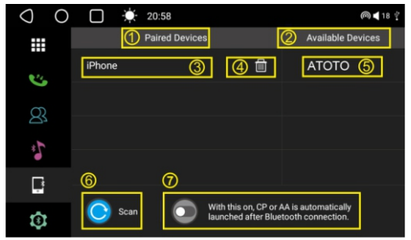


[Figure 15]

① Customize the Bluetooth name;
② <Auto Answer> Switch. When it is enabled, the incoming call will be automatically answered in 6 seconds if no manual operation;

③: Click to reset the Bluetooth 1. When you found Bluetooth 1 working improperly, click this may help fix issues.
④: This option is only applicable when new Bluetooth firmware is released for fixing certain issues. And further operation guide will be available on https://support.myatoto.com or can be obtained from ATOTO customer service support team.

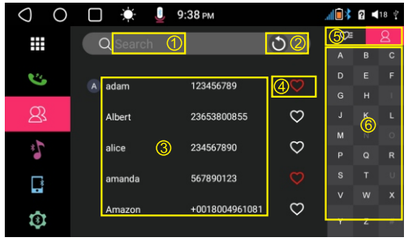
2.3. Bluetooth Connection



[Figure 16]

① Display paired devices list
② Display available devices list
③ Bluetooth device that is successfully paired
④ Click to delete the Bluetooth device aforementioned
⑤ Devices discovered by S8 Bluetooth;
⑥ Click to scan Bluetooth devices around S8. Be sure your phone Bluetooth is en abled and is set to be discoverable
⑦ With this enabled, CarPlay or Android Auto will be automatically launched after Bluetooth connection.

2.4. Bluetooth Contacts

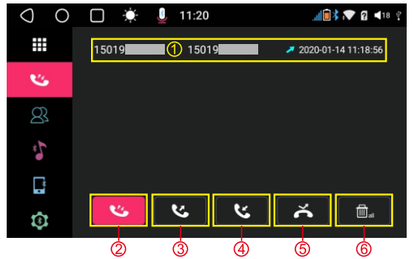


[Figure 17]

For the first time of phone connection to S8 Bluetooth,
When a cell phone is connecting to S8 via Bluetooth 1 for the first time, it will also send request for sync phone contacts to S8.
You need to select YES for prompts on your phone;

Search ①: Search for specified contact
②: Click to send request for re-downloading phone contacts
③: Contact list
④: Click to save specific contact to favorites. For saved contacts, click to remove it from favorites
⑤: Switch between all contacts and favorites
⑥: Quick search for contacts with the first letter

2.5. Call Log



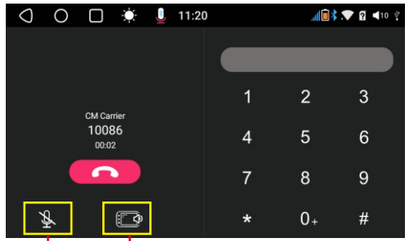
[Figure 18]

①: Call log list
② - ⑤: Call log classification
: Clear all the call log in the list

2.6. Dial Number

[Figure 19]

: Dial pad
: Delete the last number
: Click to start a call



[Figure 20]

: S8 Microphone ON/OFF switch
: Switch between cell phone speaker and car speakers

2.7. Bluetooth A2DP Music Streaming

[Figure 21]

2.7.1. Bluetooth Music Playback

①: Song information

②: Bluetooth Codec that are being applied

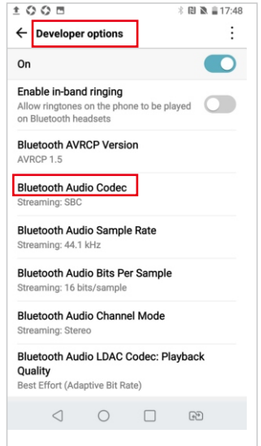
③: Dynamic music spectrum

④: Bluetooth Audio Remote Control button (AVRCP)

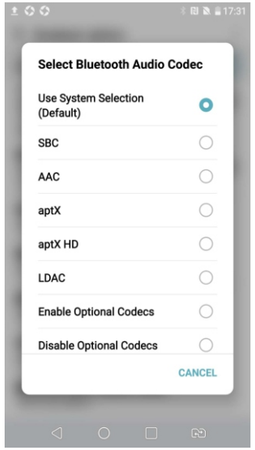
2.7.2. (※) More about Bluetooth A2DP Codec

There are four Bluetooth Codecs SBC, AAC, aptX, and aptX HD supported by the ATOTO S8 series.

⚠ aptX HD is only available on selected S8 models.
Apple iPhone only sends audio via AAC codec. Most smartphone with OS Android 8.0 or up supports SBC, AAC, aptX, aptX HD. Smartphones of the early Android version may only support some of them (SBC, AAC). The latest HUAWEI Android phone may not support aptX or aptX HD codec. Some phones of Android 9, or updated from Android 8 to Android 9, may lose aptx HD option. These are determined by the phone manufacturer and its system firmware. Applying aptX HD codec may result in unstable connection and sound quality. If the connection is unstable, such as when producing only intermittent sound, and there is an option <High Sound Quality> in your phone Bluetooth profile, please disable this option. Usually, there is also an option in the <Developer Option> that allows users to switch Bluetooth audio codec from aptX / aptX HD to ACC or SBC (see Figure23). Search on Google if you cannot find such an option from your phone settings.



[Figure 22]



[Figure 23]

2.8. About Bluetooth voice activation option

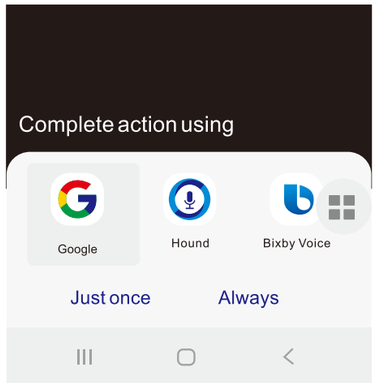
There are 3 methods for users to wake phone voice assistant with ATOTO S8;

Method 1. Touch the icon at the top of the system screen (see Chapter 1.1);

Method 2. Use one of your steering wheel audio keys to wake the phone voice assistant (see in Figure 88 / Chapter 8.4.10);

Method 3. Use voice button on ATOTO AC-44F5 Wireless IR Remote (see Figure119);

For Android phone, you need to check the prompt box from phone side for the first time (Figure 24). Then select the voice app and <Always>. For iPhone, no setup needed, phone will run Siri immediately;



[Figure 24]

3. AM/FM Radio

3.1. How to operate Radio app:

[Figure 25]

Touch to performs non-stop seek tuning.
Touch once to search stations forwards or backwards, press and hold and release it to skip stored stations forwards or backwards.
Touch to display all the searched stations.

: LOC Switch. LOC is an abbreviation of local. Enabling this option means specially for local frequency handling.
: TA: Enable this option means turning on TA(traffic announcement).
: Stereo Channel reception switch.

Touch PTY to display all the preset RDS channels and users can choose any one desired channel to search.

PTY (programme type)

This coding of up to 31 pre-defined programme types (e.g., in Europe: PTY1 News, PTY6 Drama, PTY11 Rock music) allows users to find similar programming by genre.

Touch to save current radio station to favorites, Click again to remove it from favorite list.
Touch to display all the favorite stations.
In favorite radio station list, touch to remove all radio stations in favorites
Touch to give a name to current radio frequency (see Figure 26).

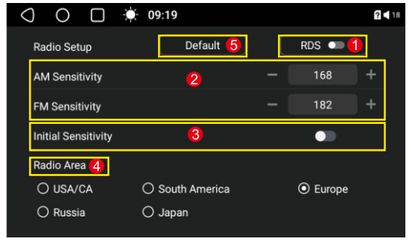
[Figure 26]

(12) Touch BAND to shift between FM and AM stations.

Notice:
There are 18 preset FM radio stations and 12 preset AM radio stations. All are initially filled with the first frequency number. When you click SCAN/ Search, new received radio stations will replace these default frequency numbers.

3.2. Radio Settings

Touch ⚙ in Figure 2xx to enter into Radio Settings (Figure 27)



[Figure 27]

①: Click to restore radio settings.
②-③: Radio reception sensitivity Switch. The default option is initial sensitivity, which is recommended choice for daily use. If you find the number of radio stations received fewer than expected, or audio quality of these stations received is not good, you can switch to <Manual> mode. Too low sensitivity value may result in receiving too many bad quality stations.

④: Select your radio area. Different areas may have different radio frequency range and scan step. Wrong radio area chosen may result in less radio station reception. Please choose correct one following the below form:

Area	FM range(MHZ)	AM range(kHz)	FM step(MHZ)	AM step(kHz)
USA/Canada	87.5~108	530~1720	0.1	10
South America	87.5~107.9	530~1710	0.2	10
Europe	87.5~108	522~1620	0.05	9
Russia	87.5~108	522~1620	0.03	9
Japan	76~99	522~1629	0.1	9

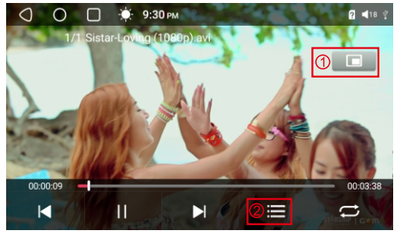
⑤: RDS RDS Switch. <RDS> is an abbreviation of Radio Data System. In the USA, it is also called RBDS. Enable this option means turning on TA(traffic announcement), and TP(traffic programme) features.

ATTENTION:

- The radio tuner with RDS doesn't include the TMC function, users can obtain real traffic info via the installed online Google map.
- S8 comes with an RDS (Radio Data System) function on the condition that the radio station of the area transmitting the RDS signal. On no RDS signal area, the FM/AM will be available automatically. The unit supports RDS RT (radio text) function, which displays under the current playing frequency.

4. Video Player

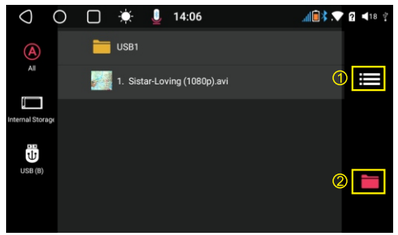
4.1. How each button/icon works?



[Figure 28]

Touch ⏮ ⏭ to skip files forward or backward, press ⏸ to play or pause.

Click ☰ to view available video files from external USB flash drive, micro SD or built-in storage.

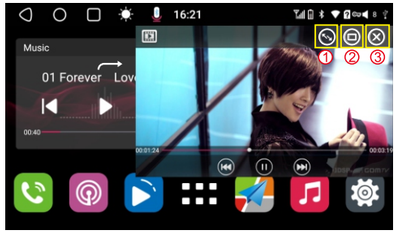


[Figure 29]

Click ☰ in Figure 29 to only view video file in list. And click ▭ to view video file folder

Touch 🔁 in Figure 28 to switch among <repeat one>, <repeat all>, <random play>.

Click ⧉ in Figure 28 to make the video window smaller and float on the system interface.



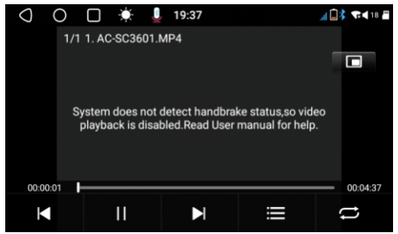
[Figure 30]

Click ⊘ in Figure 30 to enlarge or shorten current window

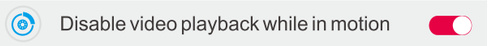
Click ⊡ in Figure 30 to view video in full screen

Click ⊗ in Figure 30 to close video playback window

4.2. Further information about <Disable video playback while in motion>



[Figure 31]

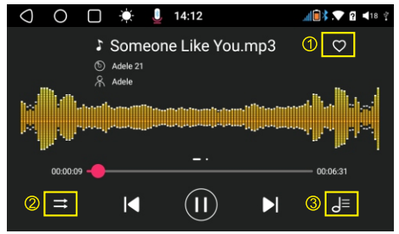


[Figure 32] Path: System Settings>General>Disable video playback while in motion

For your safety, users cannot watch videos while driving the vehicle. There is a specific cable labeled as <Parking Brake> from the back of ATOTO S8 for detecting the status of your vehicle's hand brake (if applicable). When it is correctly connected and the option in Figure 32 is enabled, you will see a notice (Figure 31) on the video playback screen while your vehicle is in motion, and it will disappear once your vehicle is parked and your hand brake is applied.

5. Music Player

5.1. How each button/icon on Music app works



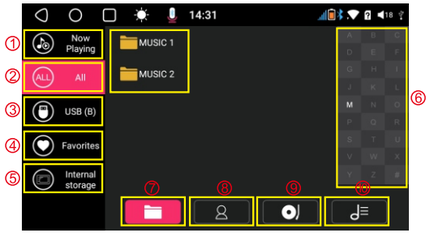
[Figure 33]

①:Touch to save current song to favorites, click again to remove it from favorite list.

②:Touch to shift among <repeat one>, <repeat all>, <random play>.

③:Click to view available music files from external USB flash drive, micro SD or internal storage.

5.2. More about media sources menu



[Figure 34]

① Click to return to current playback display

② Click to view all music files including external storage and internal storage;

③ Click to view music files in external storage

④ Click to view music files in favorites

⑤ Click to view music files in system internal storage

⑥ Area ⑥ in Figure 34 is used to quickly search for music files using the first letter

⑦ Click to view music files sorted by folder name

⑧ Click to view music files sorted by Singer

⑨ Click to view music files sorted by album

⑩ Click to view music files sorted by song tittle.

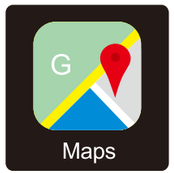
Note:
The Music player app has a memory function and can play from where it is left last time. In order to add all the latest music files in the external storage into the playlist, The Music app will automatically scan the device every time after mounting the external storage.

6. GPS Map & Navigation (GPS antenna/GPS map installation/offline map);

6.1. The GPS antenna port is only available on selected double din models. Other models without this port mean a built-in antenna has been integrated.
6.2. The S8 has a GPS positioning chip inside, and a GPS antenna port is provided at the rear(labeled GPS).Users can run the pre-installed Google Maps app for online navigation.
You need to connect the GPS antenna before powering up the S8. If the antenna is connected after S8 is powered up, the antenna will not work properly and you will not get GPS signal reception.

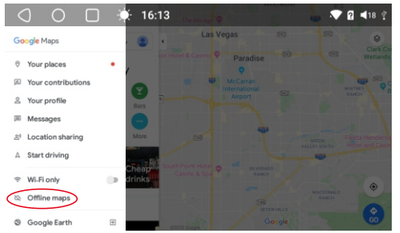
[Figure 34.1]

6.3. Google Maps app has been pre-installed in S8, but it still requires connection to network to work properly.



[Figure 34.2]

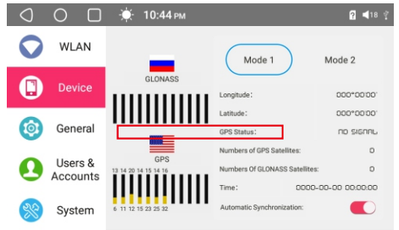
More information about network connection and internet access, refer to Chapter 8.1/8.2. Google Maps app has an option in settings (see Figure 35) allowing users to download map data for offline navigation. But not available for all areas / countries.



[Figure 35]

6.4. What should I do when the map software indicates no GPS signal?

Check GPS Signal reception from system settings (Figure 36):



[Figure 36]

If it shows no signal, please check whether the GPS antenna is correctly connected, and whether situation mentioned in 6.2 happened; Or contact your dealer for GPS antenna replacement;

If system shows good GPS signal reception, please change for another GPS map app, or restore the S8 system to fix the issue.

6.5. Alternative GPS map & navigation apps

(1).TomTom GPS Navigation
(2).iGO Navigation
(3).Sygic GPS Navigation & Maps
(4).HERE WeGo – City Navigation
(5).Waze – GPS, Maps, Traffic Alerts & Live Navigation
You may find more GPS navigation maps from Google Play Store. Some of them may become incompatible with S8 in the future, and some of them may not provide offline map data download for all countries.

6.6 About Navigation Auto Start feature

[Figure 37]

There is a shortcut icon on the Home menu (see Figure 37) for a user to specify one app as a response. Once a certain app is specified and the <Auto Start Switch> option in system settings (see ② Figure 92) is enabled, this app will pop up automatically each time system is powered up.

7.Phone Link-Apple CarPlay,Android Auto, EasyConnection

7.1 Apple CarPlay & Android Auto Connection

Apple CarPlay and Android Auto are car assistants that help you access certain features of your phone, through an in-car entertainment system (i.e. ATOTO S8 Android car stereo). With it you can do a variety of things like navigating, listening to music, or checking short messages using just voice commands or by using buttons in your car.
Plugging your phone into the car entertainment system offers drivers both convenience and safety. Fewer distractions and temptations to glance over at the phone while driving. And you can access your favorite navigation apps from your phone plus listen to your playlists and take calls hands-free. Usually, they are also abbreviated as CP and AA respectively.

7.1.1 How it works on ATOTO S8 Series?

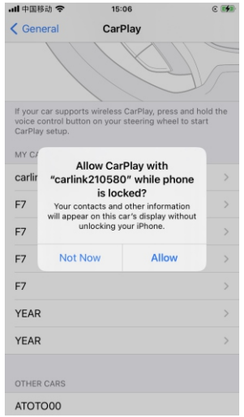
A built-in communication IC chip is used to coordinate information exchange between the Android car stereo and the smartphone. Also, there is a specific CarLink app in S8 models to handle and display the content supported by the CPAA function on the S8 screen.
Apple CarPlay requires an iPhone 6 or newer model with the latest version of iOS, and Android Auto is compatible with Android phones Android 6.0 and up. Android Auto may not be available on all devices. You have to install the Android Auto app on your Android smartphone before you can use the Android Auto feature on a car stereo.
Steering wheel position(See ④ in Figure 94).
Path: System>General>Steering wheel position
You can change the CarPlay & Android Auto display layout through the S8 settings to adapt left-hand/right-hand drive vehicles.

[Figure 38]

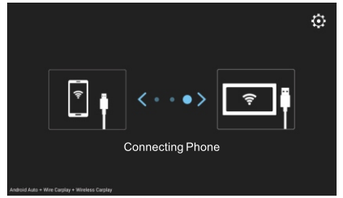
7.1.2 CarPlay

Wired CarPlay Connection

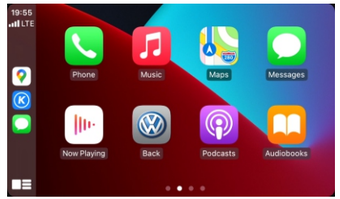
Step 1. Connect your iPhone to the specified <PhoneLink> port which goes from the rear USB Interface;
Step 2. Run the CarLink app from the S8 android car stereo (see Figure 38). You will see a pop-up window (asking for permission, see Figure 39) from your phone screen, and you are required to click <Allow>.
Step 3. The CarLink app will build a connection between your iPhone and S8 (see Figure 40), and then the CarPlay feature will display on your S8 screen (Figure 41) and there is a CarPlay icon displayed on your iPhone screen.



[Figure 39]



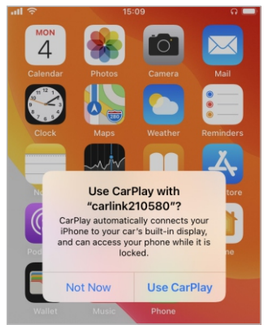
[Figure 40]



[Figure 41]

Wireless CarPlay Connection

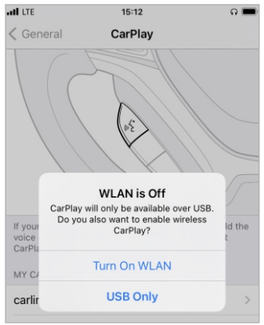
Step 1. To use Wireless CarPlay, make sure your iPhone's Bluetooth is connected to S8's Bluetooth 1. When you connect the iPhone to the S8's Bluetooth for the first time, it will detect and find that the S8 model has wireless CarPlay, and then pop up a window on your screen (see Figure 42). You need to click <Use CarPlay> on your iPhone.
Step 2. Turn on WLAN on your phone, and ensure that your iPhone's WLAN is not connected to any Wi-Fi hotspot (for example, the user's car Wi-Fi router, or the CarLink_xxx of the CarPlay);
Step 3. Run the CarLink app from S8 and it will build a wireless connection between your iPhone and S8 (see Figure 40), and then the CarPlay feature will display on your S8 screen (Figure 41).
At this time, you will see a special network Called CarLink_xxx displays on your iPhone WLAN list (see Figure 43). Please kindly make sure the CarLink_xxx hotspot of the CarPlay is always displayed(no need to connect) on the NETWORKS list of your iPhone(see Figure 43).
If your iPhone is connected to a Wi-Fi hotspot, the Wireless CarPlay will disconnect automatically or not work properly.



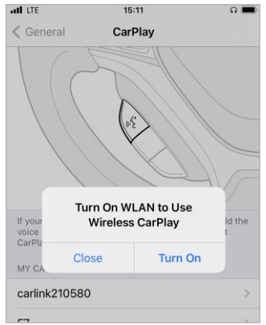
[Figure 42]

[Figure 43]

If your iPhone's WLAN option is disabled and you are connecting your iPhone to S8 via USB cable, you may have a pop-up window (see Figure 44) on your phone to confirm which connection method to select in the next step. If you occasionally find that the Wireless CarPlay will not automatically connect, the most likely causes are that the WLAN of your iPhone was manually disabled before you returned to the vehicle, or your phone is still connected to another WiFi hotspots though you are in the vehicle. You need to turn on iPhone's WLAN option (see Figure 45) or disconnect from another WiFi hotspot.



[Figure 44]

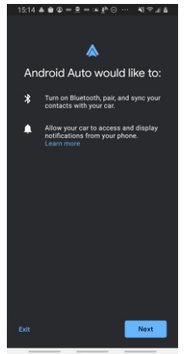


[Figure 45]

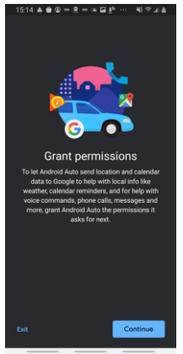
*The S8 model that comes with the Wired CarPlay feature may not have a Wireless CarPlay option. This feature is only available on selected S8 models.
*If you are owning an S8 that comes with Wireless CarPlay and you only hope to use Wired CarPlay connection, you need to disable iPhone's WLAN option.

7.1.3 Android Auto

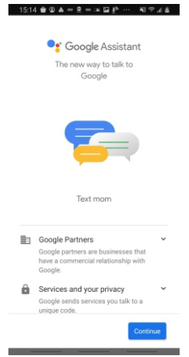
Wired Android Auto Connection:
Step 1. To use the Android Auto feature on S8, you need to install the Android Auto app on your Android phone first. Search <Android Auto> on Google Play Store and install it if your phone is not pre-installed with this app. If you are unable to install this app from Google Play Store, it means Android Auto is incompatible with your phone, or it is not available in your country.
Step 2. Connect your phone to the specified <PhoneLink> port which goes from the rear USB Interface;
Step 3. Run the CarLink app from the S8 android car stereo (see Figure 38). You may see some pop-up windows (see Figure 46 & Figure 47) from your phone screen when connecting for the first time, please click <Allow> or <Yes> to proceed and complete all the requirements popped on your phone, otherwise, the Android Auto won't run and display a black screen.



[Figure 46]

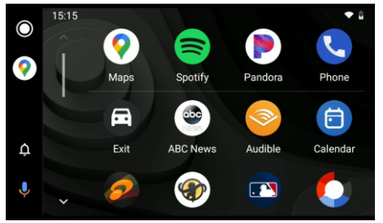


[Figure 47.1]



[Figure 47.2]

Step 4. The CarLink app will build a connection between your Android phone and S8 (see Figure 40), and then the Android Auto feature will display on your S8 screen (Figure 48) and there is an Android Auto icon displayed on the phone's screen.



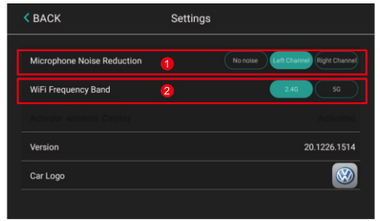
[Figure 48]

Android OS in different Android phone brands is deeply customized, and the hardware/firmware of Phone Bluetooth is totally different, so Wireless Android Auto is not available on the ATOTO S8 series.

7.1.4 Attention:
*The ATOTO S8 requires the user to use the factory/original USB cable that comes with the phone for Android Auto / CarPlay connection. Non-manufacturer made USB cable may easily cause connection issues, such as a black screen after minutes of playback, or an unstable phone connection. For the original USB cable, the connection may also fail due to unstable contact of the USB interface, please try to unplug and connect it again. Please do not try to add any extension USB cable, as none of them is qualified for CPAA connection.
* If you follow all the steps above and still find that the CarLink app cannot automatically connect and load the CarPlay or Android Auto display, please restart the phone and S8 respectively and try again. In some cases, you may need to clear the connection record on the mobile phone and initialize the connection again.

* Due to the limitation of Android system architecture, S8 regards CarLink's audio and the audio of local media apps (BT Music / Radio / Music / AUX) as mutually exclusive. In other words, they cannot output sound at the same time. You can't use maps in CPAA while listening to the radio or playing music from a USB flash drive. Actually, the navigation app and media app in CarLink can run simultaneously.

7.1.5 CarLink app App Settings



[Figure 49]

①.Microphone Noise Reduction. This option is used to improving the quality of phone calls using Carplay. If your vehicle is RHD type (right-handed drive), we recommend that you choose the <Right Channel>, And vice versa;
②.Wifi Frequency Band. Select the one that your phone can support. 5G band is highly recommended for a more stable connection.

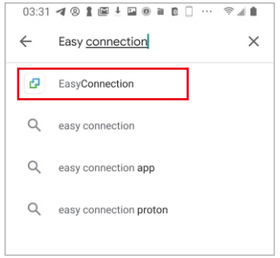
7.2 EasyConnection (also known as Phone screen mirroring or Mirrorlink)

7.2.1 How EasyConnection works?

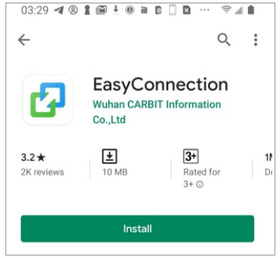
This feature allows displaying the smartphone's screen on the S8' display screen via wired USB or WiFi wireless connection. A specified app called EasyConnection built in to fulfill this function. You can use the phone's GPS navigation app (Google Maps, Waze, Tomtom, etc.) for online navigation, or let your phone's video app (YouTube, etc.) displays on S8's screen. It is compatible with selected Android phones and iPhones.

7.2.2 Setup of EasyConnection for Android Smartphone.

7.2.2.1. Set up EasyConnection via USB Connection
Step 1. Find EasyConnection app from Google Play Store and install it to your Android Phone

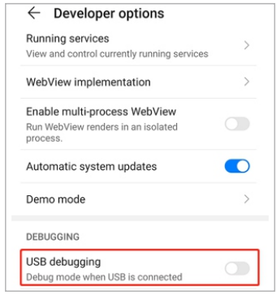


[Figure 50]



[Figure 51]

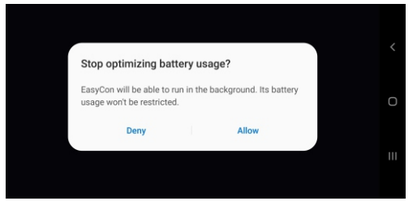
If you still have problem installing it to your Android phone, contact ATOTO customer support (support@myatoto.com) for requesting download link
Step 2. Enable USB Debug from system Developer Options



[Figure 52]

07 Phone Link-Apple CarPlay,Android Auto,EasyConnection

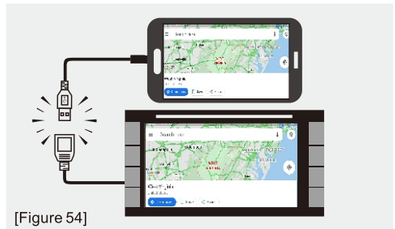
If you do not know how to find Developer Option for your Android smartphone, please search on google with keywords like <Samsung S9 Developer Options> for solutions. For some phones, this step is not required;
Step 3.Plug phone to S8's specified USB, click yes to all pop-up from phone side, then run EasyConnection app on S8.



[Figure 53]

The latest operation steps for Android smartphones may be changed in future. You can visit https://support.myatoto.com for the latest information.

7.2.2.2. Setup EasyConnection via WiFi connection
In Step 3 (phone's screen is cast to S8), if ATOTO S8 is connected to phone's Wi-Fi Hotspot, or both S8 & phone are connected to a third-party Wi-Fi hotspot(e.g. portable WiFi router device), then unplug USB to let the mirroring cast run wirelessly.



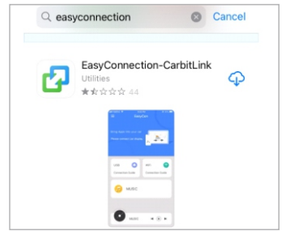
[Figure 54]

Notice:
(1). Currently, Phone OS should be Android 4.4 or up for using the EasyConnection app.
(2). Use the specified USB interface for connection. Bluetooth is also connected so that phone's audio can be Synchronized.
(3). ATOTO S8 requires the user to use the factory/original USB Cable that comes with the phone for using the EasyConnection feature. Non-manufacturer made USB cable may easily cause connection issues, such as unstable phone connection, or mirroring display is intermittently interrupted.
(4). When you mirror from your phone to ATOTO S8 via WiFi hotspot, there is no extra data used by your internet connection. Only what is running on your smartphone may consume mobile data.

7.2.2.3. For USB Tethering network via USB EasyConnection connection, please refer to chapter 8.1.1.

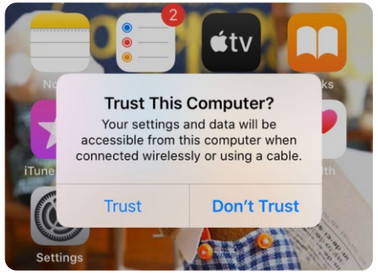
7.2.3 Setup of EasyConnection for iPhone

7.2.3.1.USB Connection.
Step 1: Search EasyConnection-CarbitLink app(see Figure 55) from the iPhone App Store and install it on your iPhone. The permissions or requests popping up on your iPhone are needed to be allowed in the first time connection.
Note: Unlike ATOTO A6/S8 (Gen1), S8 (Gen2) requires iPhone users to install specific applications.
Step 2: Plug your iPhone to S8's specified USB interface using the original iPhone USB Cable, and click "Trust" to pop-up from the iPhone side (see Figure 56), then run the EasyConnection app on S8.

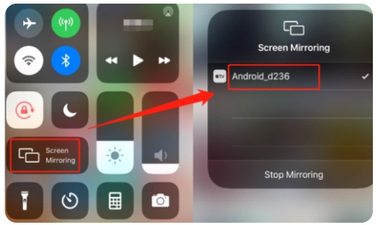


[Figure 55]

7.2.3.2. WiFi Connection. After steps in Chapter 7.2.3.1 are finished, open the phone's personal hotspot, connect S8 to this WiFi hotspot. Then open the iPhone's screen mirroring, find this device (see Figure 57), and you will be able to use EasyConnection on S8 wirelessly.



[Figure 56]

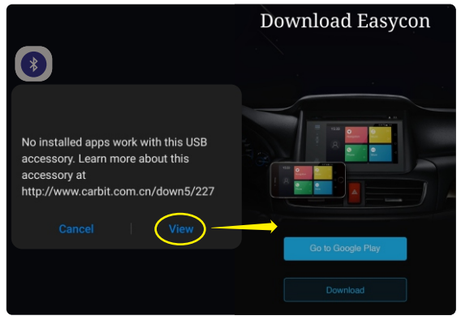


[Figure 57]

The latest operation steps for iPhone may be changed because of continuous iOS upgrade. You can visit https://support.myatoto.com for more information.

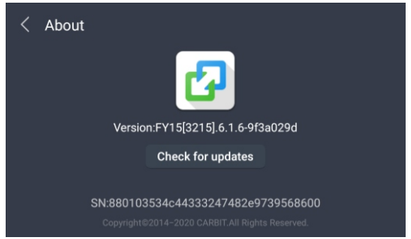
7.2.3.3. For USB Tethering network via USB EasyConnection connection, please refer to chapter 8.1.1.

7.2.4. Continuous software update of EasyConnection app
Most phone brands may release new system firmware for current phone owners, and new version system firmware may cause the EasyConnection app to work improperly. If you encounter a connecting issue after the smartphone is updated, follow the steps below:
7.2.4.1. Update the EasyConnection app on your smartphone using Google Play Store.



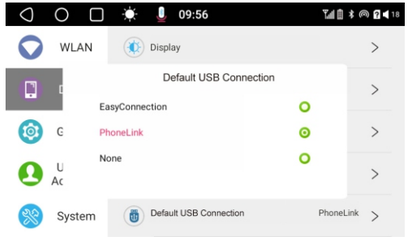
[Figure 58]

7.2.4.2. Click <Check for updates option> (Figure 59) to see if new version of EasyConnection for S8 is available. You need to ensure S8 is connected to the internet before doing this. If you still have a problem using the EasyConnection feature, please contact ATOTO Customer Support (support@myatoto.com) for help.



[Figure 59]

7.3 Select as the default USB connection:



[Figure 60]

Path: System>Device>Default USB Connection.
Once the EasyConnection is selected, it will start and run automatically on the S8 when you connect your phone to the S8 through a USB cable.

NOTICE: Since the S8 has a USB tethering function based on an EasyConnection connection, once your phone connects to the S8 via EasyConnection, the S8 can use your phone data for internet access.

8. System Settings

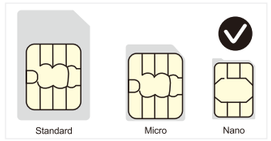
8.1 Network settings

8.1.1. How can ATOTO S8 get access to internet?

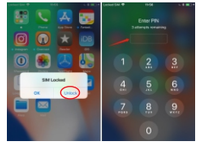
(1).Connect to a WiFi hotspot provided by a portable router or user's smartphone.
(2).Connect to internet via built-in LTE Modem. Wirelessly connect to nearby base stations via built-in LTE modem circuit;
(3).Connect to Bluetooth Tethering hotspot provided by a smartphone (See Chapter 8.2.2).
(4).Traditional USB 3G/4G Dongle is not supported.
(5).USB tethering. After you connect the phone to the S8 via USB and enable the EasyConnection function, you can let it run in the background. Then you can use the USB tethering network feature. This option allows you to use the phone's data on the S8 through the USB connection. For more details about connecting to EasyConnection via USB cable, please refer to Chapter 7.2.

8.1.2. How to connect to a WiFi hotspot?

The operation steps are the same as you connect your smartphone or tablet to a WiFi hotspot. ATOTO S8 will be able to search & see both the 2.4GHZ and 5GHZ WiFi hotspot.
(※)Connect to the internet via built-in LTE modem
8.1.2.1. This option is only available on the selected ATOTO S8 model. Not all models are equipped with this option.
8.1.2.2. The SIM Slot only takes Nano size SIM



[Figure 61.1]



[Figure 61.2]

(1). Please pay attention to the orientation when inserting the SIM card. If you put the SIM card in the wrong direction, the deck can still lock it like a Micro SD card (a click is heard), but it won't work properly and you will not have a 4G LTE signal on the notification bar.
(2). The SIM card should be inserted before S8 is powered up, otherwise, the system won't recognize it and you have to do a circuit reset using <Reset> hole on the front panel in order to get it to work properly.
(3). SIM cards issued by some operators are locked (or protected) by a PIN code, and the PIN code can be found on the SIM card carrier. In this case, you need to put this SIM card in your phone to manually disable (or unlock) the PIN code before putting it in the S8. S8 has no option to complete this operation!
(4). Before installing the SIM cards to the S8, some operators' SIM cards are needed to be activated using another device (such as a mobile phone) in advance to confirm that other devices can access data and network through the SIM card, then you can install the SIM card to the S8.

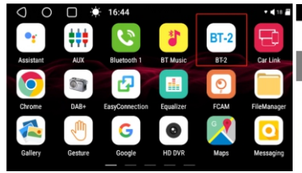
8.1.2.3. Network Frequency Band

Network Generation	For S8 models with the suffix "-N"	For S8 models with the suffix "-A"
2G	GSM850, GSM900, GSM1900	GSM850, GSM900, GSM1800, GSM1900
3G WCDMA	B1,B2,B4,B5,B8	B1, B2, B5, B8
4G	B1, B2, B4, B5, B7, B8, B12, B13, B17, B19, B25, B26, B38, B41	B1,B2,B3,B5,B7,B8,B19,B20,B25,B26, B28A,B28,B34,B38,B39,B40,B41

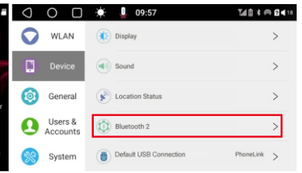
For S8 models with the suffix "-N" (for example, S8G2A74PR-N), they are mainly compatible with operators from North American areas (USA, Canada, and Mexico); For these with the suffix "-A", they are compatible with most of the rest of the world (Europe, Asia, and other areas). Please contact your operator to confirm which frequency bands they are supporting currently.
Only carriers who support bands listed above can allow S8 to access the network. Even if the frequency bands in the above list are supported, if the places your vehicle stays are not covered by the operator's communication base station, S8 will not be able to access the network.
You can visit Wikipedia to learn more about LTE bands supported by local carriers: https://en.wikipedia.org/wiki/LTE frequency bands
Besides, even though S8 have been passed GSMA certification, a few carriers may have a compatibility issue with the IMEI of the S8（The VERIZON SIM card has been confirmed to have compatibility issues.).

8.1.2.4. The SIM card inserted can only be used as a data service. Once the SIM card and the data service can be used on the S8, you can turn on the "Hotspot & tethering" option to share hotspot to another device through Settings > WLAN > More > Hotspot & tethering. S8 does not support making a call or sending SMS messages.
8.1.2.5. How to check your S8's cellular data usage?
As there is no phone call function, the only way for checking S8's cellular data usage is to log in to your SIM carrier website or app to get details. Carrier's SMS verification message can be received by the built-in Message app.

8.2 About Bluetooth 2



[Figure 62.1]



[Figure 62.2]

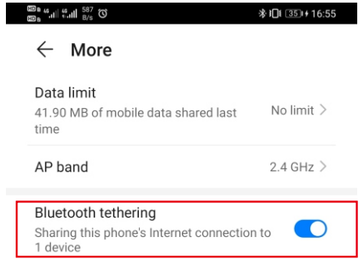
8.2.1. What can the Bluetooth 2 do?

Different from Bluetooth 1 (used for Bluetooth hands-free and media streaming), Bluetooth 2 is used for data transmission and BLE connection:
(1). Connect to various third-party Bluetooth devices, such as Bluetooth OBD diagnostic devices (see Chapter 14.4), Bluetooth keyboards, Bluetooth mouse, Bluetooth gamepads, etc. Some special types of Bluetooth devices may not be supported or compatible;
(2). Bluetooth Tethering Connection

8.2.2. Operation steps of connecting to phone cellular data via Bluetooth Tethering option.

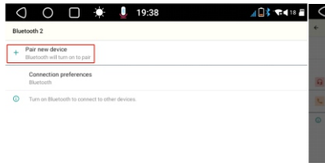
For Android smartphone:
Step 1. Be sure your smartphone is not connected to a WiFi hotspot, and the WiFi option on ATOTO S8 is also disabled.

Step 2. Enable Bluetooth & Bluetooth Tethering from the phone end (see Figure 63. Usually, it is in <Mobile Hotspot and Tethering option>), and the data option on your phone;

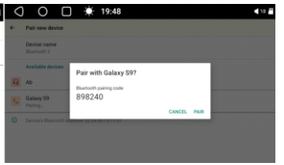


[Figure 63]

Step 3. Find the Bluetooth2 on S8, click <Pair new device>, and find your phone device in the Available devices list. (see Figure 64).
Pair and build a Bluetooth connection between your smartphone and Bluetooth2 (see Figure 65).

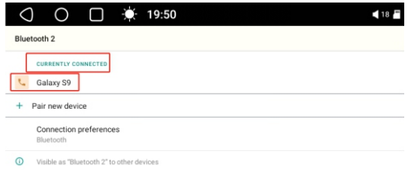


[Figure 64]



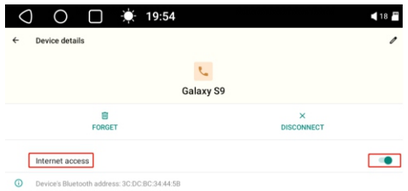
[Figure 65]

Step 4. Your phone Bluetooth device will be displayed in the <CURRENTLY CONNECTED> list, which means your phone Bluetooth is connected to Bluetooth2. (Figure 66)



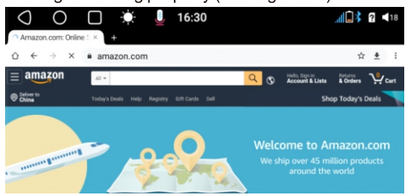
[Figure 66]

Step 5. Click the name of your phone Bluetooth on the list, and enter into the Bluetooth settings and enable the <Internet access> option. (see Figure 67)



[Figure 67]

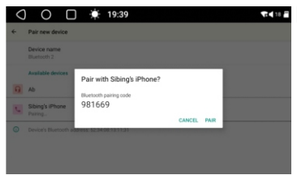
Step 6. Open Chrome Browser in S8 and visit a website to test if Bluetooth tethering is working properly (see Figure 68).



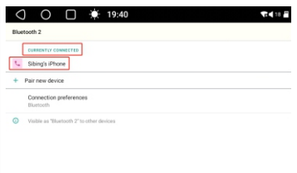
[Figure 68]

8.2.3. Notice:
(1). Make sure the <Bluetooth Tethering> option on your phone is enabled, otherwise you might be not able to build the Bluetooth connection at step 3, or can't enable the <Internet access> option st step 5.
(2). The connection status may disappear after it keeps displaying <Connected> for minutes, but as long as the internet access is available, the Bluetooth Tethering is just working!
(2). Certain apps may not consider Bluetooth tethering connection as a valid internet connection, and display network error. Contact its developer for fixing such issues.

For iOS devices such as the iPhone or iPad:
Step 1. Enable Bluetooth, Personal Hotspot, and the data option on your iPhone.
Step 2. Find the Bluetooth2 option on S8, click <Pair new device>, and find your iPhone device in the Available devices list.
Pair and build a Bluetooth connection between your iPhone and Bluetooth2 (see Figure 69).
Your phone Bluetooth device will be displayed in the <CURRENTLY CONNECTED> list, which means your phone Bluetooth is connected to Bluetooth2. (see Figure 70).

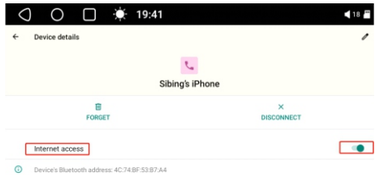


[Figure 69]



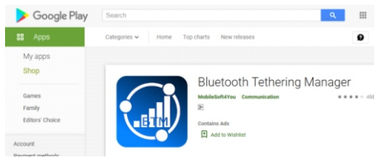
[Figure 70]

Step 3. Click the name of iPhone Bluetooth on the list and enter into the Bluetooth settings, and then enable the <Internet access> option.
(see Figure 71).



[Figure 71]

Note:
These detailed steps listed in chapter 8.2.2 & 8.2.3 may be outdated due to phone firmware update. Different phone brands may also have different operation steps. You can contact the phone manufacturer for help if you experience a Bluetooth tethering connection issue.
8.2.4. Bluetooth tethering option on your phone may turn off automatically or unexpectedly. Unlike the WiFi connection, the Bluetooth tethering connection can only be manually reconnected.
Third-party developers may provide special app (such as Bluetooth Tethering Manager. See Figure 72) to help reconnect between Android-based devices and save users from manually connecting every time. However, ATOTO cannot guarantee that similar apps will still work in the future.

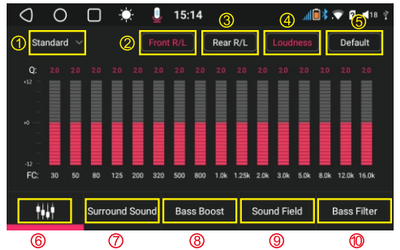


[Figure 72]

8.3 Built-in Equalizer & Audio Setup

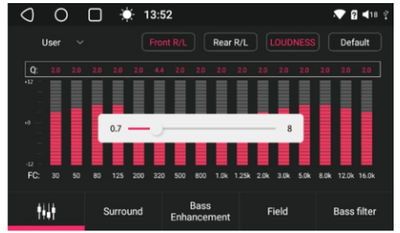
Note: For S8 Lite users, please refer to 8.3.2 to check equalizer settings;

8.3.1. Equalizer Setup



[Figure 73]

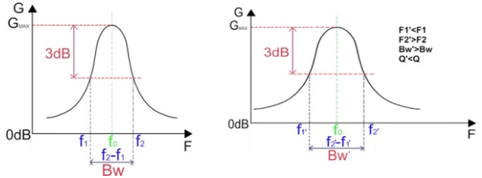
Notes on abbreviations on the screen display:
R/L = Right / Left
8.3.1.1. EQ adjustment: Manual and pre-set equalizer are available.
Click User to enter into preset EQ adjustment, which includes 8 pre-set and 1 user.
There are Standard, Rock, Soft, Classic, Pop, Hall, Jazz, Cinema and User
If <user> selected, it goes into manual mode. Manual adjustments of non-user mode will be saved to <User> mode.



[Figure 74]

There are 32 frequency bands, of which 16 bands are for front two speakers and the other 16 for rear two speakers. Touch<Front R/L> or <Rear R/L> to shift.
The total valid band frequency range is between 30Hz and 16 KHz.

Each band slope can be adjusted with Q factor through touching Q number.



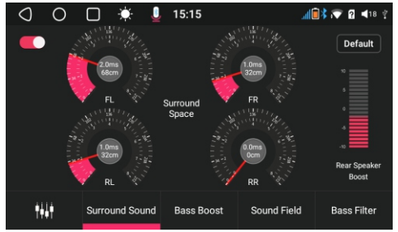
Q=f0/(f2-f1)

The bigger Q factor is, the smaller the slope and the band adjustment becomes weaker. Oppositely,the smaller Q factor is, the bigger the slope and the band adjustment becomes more obvious.

Click Loudness to enable Loudness option. This control allows you to boost the lower frequencies in your music for full, rich sound at lower volumes.

Click Default to restore USER value

8.3.1.2. Surround Sound (aka Time Correction)



[Figure75]

Time Correction: ATOTO S8 is able to delay the audio signal to the speakers closest to the listener with its built-in Time Correction feature. This effectively creates a perception of increased distance for those speakers. Time Correction allows the listener to be placed at an equal distance between the left and right speakers for optimum staging. You can adjust the distance (0-272cm) or time delay (0.0-8msec) of each speaker.

Notes on abbreviations on the screen display (see Figure 75):

FL = Front Left Speaker

FR = Front Right Speaker

RL = Rear Left Speaker

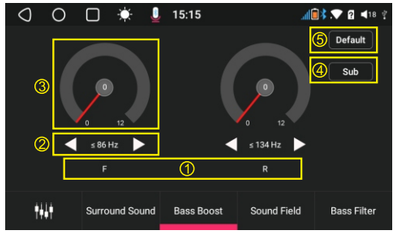
RR = Rear Right Speaker

Click to disable <Time Correction> feature.

Click Default (④) to restore to default value

Due to the fact that rear speakers are far from driver's seat, they may become a little weaker to driver or front listeners. User can adjust <Rear Speaker Boost> option on the right as compensation.

8.3.1.3. Bass Boost



[Figure 76]

① Notes on abbreviations on the screen display (see Figure 76):

F = Front Speaker
R = Rear Speaker

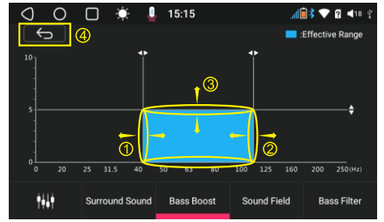
② Select the frequency range where the enhancement can be implemented. Switch between three ranges (OFF, ≤86Hz, ≤134Hz)

③ Slide pointer to adjust how much you want to boost for the selected frequency range. You can adjust the pointer between 0 ~ 12.

④ Click Sub to enter in Subwoofer Boost settings.

⑤ Click Default to restore to default settings.

8.3.1.4. Subwoofer Boost.

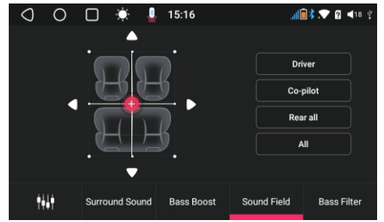


[Figure 77]

Please make sure the color of the selected area becomes blue, it means the area selected is valid; if it is gray, there will be no signal output from the subwoofer.
Step 1. Drag the ① line in Figure 77 to the left or right to set the starting range of the frequency you want;
Step 2. Drag the ② line in Figure 77 to the left or right to set the ending range of the frequency you want;
When the color of the selected area is blue, the area selected is valid, or in the effective range.
Step 3. Drag the ③line in Figure 77 up or down to set the enhancement range for the selected frequency range.

Note:
Click to back to previous window.

8.3.1.5. Sound Field (aka Listening Position)



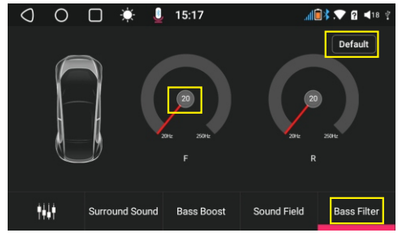
[Figure 78]

There are five typical listening positions: Driver seat, Co-pilot seat, Front all, Rear all, Centre.

You can move , or use arrows to find your favorite listening position.

You can also select from preset 4 listening positions (see ② in Figure 78);

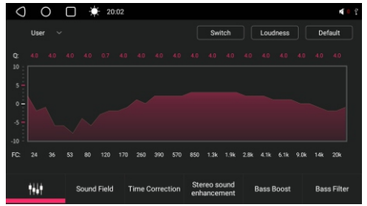
8.3.1.6. Bass Filter



[Figure 79]

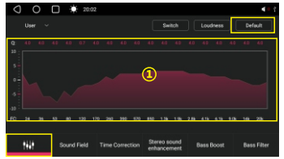
Bass filter is a filter that passes signals with a frequency higher than a selected cutoff frequency and attenuates signals with frequencies lower than the cutoff frequency.
Notes on abbreviations on the screen display (see Figure 79):
F = Front Speaker
R = Rear Speaker
Slide pointer to select frequency range you want to cut off. You can adjust the pointer between 20Hz ~ 250Hz.
Red area: cutoff frequency
E.g. 20Hz ~51Hz
Gray area: pass frequency
Click Default to restore to default value.

8.3.2. Equalizer Setup for S8 Lite Versions

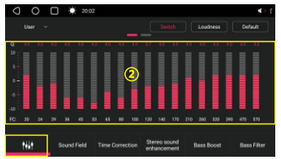


[Figure 80]

8.3.2.1. EQ adjustment: Manual and pre-set equalizer are available.
Click User to enter into preset EQ adjustment, which includes 8 pre-set and 1 user.
There are Standard, Rock, Soft, Classic, Pop, Hall, Jazz, Cinema and User
If <user> selected, it goes into manual mode. Manual adjustments of non-user mode will be saved to <User> mode.

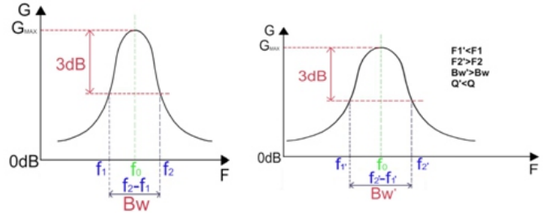


[Figure 81-1]



[Figure 81-2]

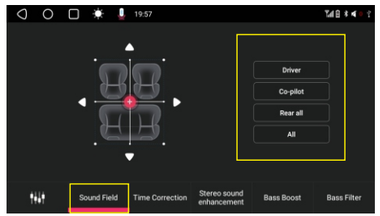
S8 Lite has two frequency bands display modes. One is graph; one is scroll bars. You can tap the "switch" button in Figure 81-1 and Figure 81-2 to shift between them. You can move your fingers over area 1 in Figure 81-1 or drag the scroll bars in area 2 in Figure 81-2 to adjust the frequency bands.
In addition, there are in total 36 frequency bands. Swipe left or right in area 2 in Figure 81-2 to view and adjust all of the them. The entire adjustable frequency range is 20 HZ to 20 kHZ.



Q=f0/(f2-f1)
The bigger the Q factor is , the smaller the slope; and the band adjustment becomes weaker. Oppositely,
the smaller the Q factor is , the bigger the slope; and the band adjustment becomes more obvious.

Click Loudness to enable the Loudness option. This control allows you to boost the lower frequencies in your music for full, rich sound at lower volumes.
Click Default to restore USER value

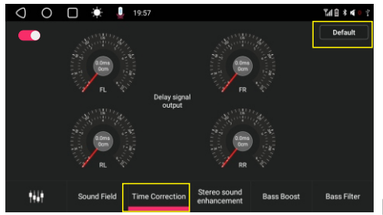
8.3.2.2. Sound Field (aka Listening Position)



[Figure 82]

There are five typical listening positions: Driver seat, Co-pilot seat, Front all, Rear all, Centre.
You can move , or use arrows to find your favorite listening position.
You can also select from preset 4 listening positions (see Figure 82)

8.3.2.3. Time Correction



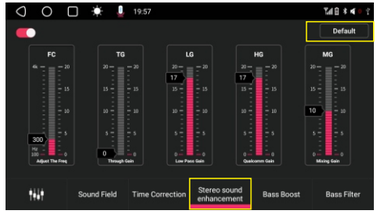
[Figure 83]

Time Correction: ATOTO S8 is able to delay the audio signal to the speakers closest to the listener with its built-in Time Correction feature. This effectively creates a perception of increased distance for those speakers. Time Correction allows the listener to be placed at an equal distance between the left and right speakers for optimum staging. You can adjust the distance (0-272cm) or time delay (0.0-8msec) of each speaker.
Notes on abbreviations on the screen display (see Figure 83):

FL = Front Left Speaker
FR = Front Right Speaker
RL = Rear Left Speaker
RR = Rear Right Speaker
Click to disable / enable <Time Correction> feature.
Click Default to restore to the default value

Due to the fact that rear speakers are far from the driver's seat, they may become a little weaker to driver or front listeners. Users can adjust the<Rear Speaker Boost> option on the right as compensation.

8.3.2.4. Stereo Sound Enhancement

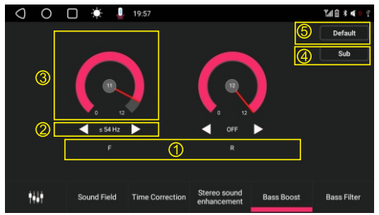


[Figure 84]

Notes on abbreviations on the screen display (see Figure 83):

FC = Frequency
TG = Through Gain
LG = Low Pass Gain
HG = Qualcomm Gain
MG = Mixing Gain
Drag scroll bars up or down to adjust each sound effect to get your favorite stereo sound effects.
Click to disable / enable <Stereo Sound Enhancement> feature.
Touch Default to restore to default settings.

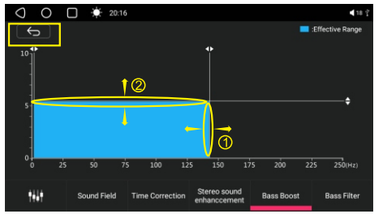
8.3.2.5. Bass Boost



[Figure 85]

① Notes on abbreviations on the screen display (see Figure 85):
F = Front Speaker
R = Rear Speaker
② Select the frequency range where the enhancement can be implemented. Switch between three ranges (OFF, ≤54Hz, ≤214Hz)
③ Slide pointer to adjust how much you want to boost for the selected frequency range. You can adjust the pointer between 0 ~ 12.
④ Click Sub to enter in Subwoofer Boost settings.
⑤ Click Default to restore to default settings.

8.3.2.6. Subwoofer Boost.



[Figure 86]

Please make sure the color of the selected area becomes blue, it means the area selected is valid; if it is gray, there will be no signal output from the subwoofer.

Step 1. Drag the ① line in Figure 86 to the left or right to set the ending range of the frequency you want;
When the color of the selected area is blue, the area selected is valid, or in the effective range.

Step 2. Drag the ②line in Figure 86 up or down to set the enhancement range for the selected frequency range;

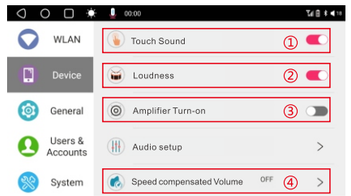
Note:
Click to back to previous window.

8.3.2.7. Bass Filter

[Figure 87]

The bass filter is a filter that passes signals with a frequency higher than a selected cutoff frequency and attenuates signals with frequencies lower than the cutoff frequency.
Notes on abbreviations on the screen display (see Figure 87):
F = Front Speaker
R = Rear Speaker
Slide pointer to select the frequency range you want to cut off.
You can adjust the pointer between 20Hz ~ 250Hz.
Red area: cut off frequency
E.g. 20Hz ~51Hz
Gray area: pass frequency
Click Default to restore to the default value.

8.3.3. Other options related to audio settings

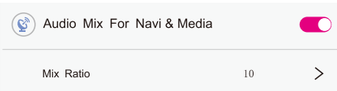


[Figure 88]

8.3.3.1. Touch Sound Switch. Click to disable or enable this option (See ① in Figure 88)
8.3.3.2. Loudness Switch. See <Loudness> section in Chapter 8.3.1.1.
8.3.3.3. Amplifier Turn-on Switch (See ③ in Figure 88). This option is to turn on or off a vehicle amplifier (if applicable), when the cable which is labeled as <Amplifier turn-on> on the rear of S8 is connected.
8.3.3.4. Speed compensated Volume(See④in Figure 88). You can turn it on or off. If you turn it on, you can choose a compensated volume level among “Low” “Medium” ”High”.
The theory of this function is to use the GPS data collected by the car radio to calculate the speed of the car and to intelligently adjust the system volume of the car radio according to the current speed and current audio volume.
The GPS data collected might be delayed or deviated due to the influence of the environment (such as in the tunnel） or other unknown factors. Therefore, the volume adjustment sometimes may have detention and inaccuracy. If you don't want to use this function, please turn it off.

[Figure 89]

8.3.3.5. Default Media Volume Every Start
Path: System Settings>General>Default Media Volume Every Start
Enable this option to customize default audio volume when ATOTO S8 boots up. After turning this option off, you may experience uncomfortably loud sounds that were set last time.



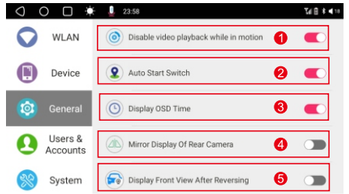
[Figure 90]

8.3.3.6. Audio Mix for Navi & Media
Path: System Settings>General> Audio Mix for Navi & Media
Enable this option to customize the audio volume ratio of Media & Navigation Prompts.
You can set the ratio value between 0~20.
8.3.3.7. Audio Mute while reversing vehicle

[Figure 91]

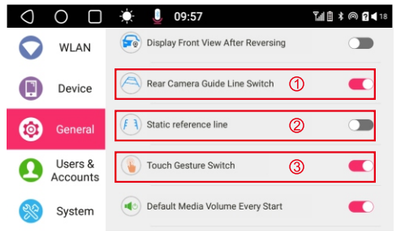
Path: System Settings>General> Audio Mute while reversing
Enable this option to mute the media volume or just decrease it to specified value when you back a car.

8.4 General Settings (Excluding Audio-related options)



[Figure 92]

8.4.1. Disable video playback while in motion (See ① in Figure 92).
Refer to Chapter 4.2 & Chapter 11.1.1.
8.4.2. Auto Start Switch(See ② in Figure 92).
Refer to Chapter 6.5.
8.4.3. Display OSD Time (See ③ inFigure 92).
Enable this option to display system time on the video playback screen.
8.4.4. Mirror Display Of Rear Camera (See ④ in Figure 92).
Enable this option to display a left-right reversed image of the rear camera. It is applicable to rear camera that displays left right reversed;
8.4.5. Display Front View After Reversing (See ⑤ in Figure 92).
Enable this option will let the system display video provided by the FCAM app automatically once you exit from reverse gear. This requires ATOTO S8 to also connect to a front view camera. Refer to chapter 11.2 for more details.
8.4.6. Rear Camera Guide Line Switch (See ① in Figure 93).

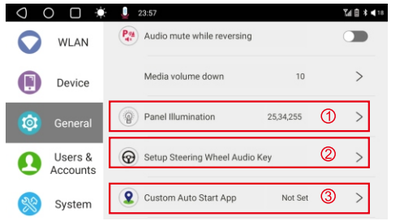


[Figure 93]

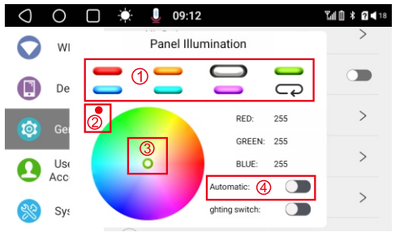
Enable this option to add guidelines on the screen when rear camera images display. It is applicable to rear camera that does not have guidelines on the display; More information about guideline settings, see chapter 10.1.4.
8.4.7. Static Reference Line (See ② in Figure 93)
If enabled, the dynamic guide line will be shifted to static.
Note: This option only works with selected S8 models that fit for specific Volkswagen;
8.4.8. Touch Gesture Switch (See ③ in Figure 93)
Touch screen gesture is a set of gestures to help users operate conveniently on the multi-touch screen.
Enable this option to experience feature in chapter 1.5. Disable it if you do not want to use this function.

Default Media Volume Every Start: See Chapter 8.3.2.4
Audio Mix for Navi & Media: See Chapter 8.3.2.5
Audio Mute while reversing vehicle: See Chapter 8.3.2.6

8.4.9. Panel Illumination settings (See ① in Figure 94)



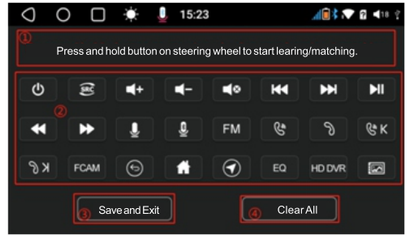
[Figure 94]



[Figure 95]

Use this option to set the lighting color of the button on the S8 panel
(1). Enable (see ④ in Figure 95) to shift gradually between the preset colors in sequence;
(2). Disable to customize the illumination color. There are seven preset colors to choose (see ③ in Figure 95) and a color panel (see ① in Figure 95) to meet more various requirements (Touch to return to preset color).

8.4.10. Setup Steering Wheel Audio Key (See ② in Figure 96)



[Figure 96]

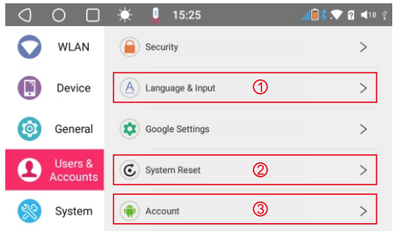
The process of setup steering wheel audio keys:
Step 1: Press and hold a button on the vehicle's steering wheel (see Figure 96) to start paring (mapping), simultaneously touch the desired function on the menu (see ② in Figure 96) until it gets red. Follow the same operation to complete the rest keys.
Step 2: Touch <Save and exit> (see ③ in Figure 96) to save settings made in step 1 and exit the menu.
Click <Clear All> (see ④ in Figure 96) to remove all the saved settings and start setup again.

Note:
(1). This feature requires your car to have a factory steering wheel audio key control feature (shorted for SWC, based on resistive analog signal input only. See Figure 97); if your vehicle uses digital CANBUS data signal, and you can find an applicable digital-to-resistive converter from third party supplier, SWC feature can still be retained.
(2). For more information about SWC related wiring connection, refer to the second user manual named as <Panel Operation /Ports connection and Installation Instructions> in the package;

[Figure 97]

8.4.11. Custom Auto Start APP (See ③ in Figure 94)Refer to Chapter 6.5 for details.

8.5 Language & Input (See ① in Figure 98)



[Figure 98]

You can change system language or keyboard input option
There are 21 languages available: English, German, French, Italian, Spanish, Portuguese, Japanese, Russian, Arabic, Polish, Korean, Dutch, Thai, Turkish, Ukrainian, Hebrew, Greek, Hungarian, Indonesian, Vietnamese and Chinese.
Note:
In addition to the 20 languages listed above, other ones you can choose from the system language list will only cover the text of part of the system interface, and the other parts will only be displayed in English

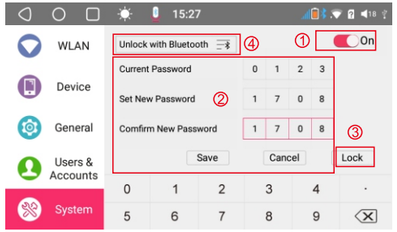
8.6 System Reset (See ② in Figure 98)

You can restore the system to factory default via this option, which will remove all personal data and settings.
*In order to protect your privacy, when you need to return this product, it is recommended that you reset the device to factory default before requesting a return or exchange.

8.7 Screen Lock & Bluetooth Unlock Settings

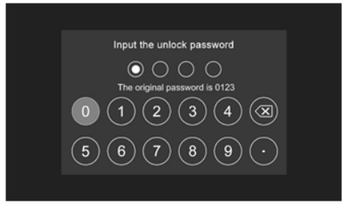
[Figure 99]

Path: System Settings > System > Screen Lock



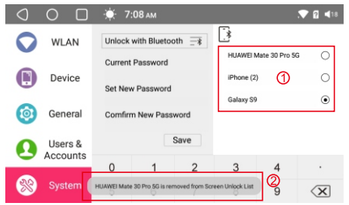
[Figure 100]

Click off (see ① in Figure 100) to enter into Screen Lock & Bluetooth Unlock Settings
There are two methods for locking and unlocking the screen:
Method 1: Set a password (see ② in Figure 100) and input your password to unlock the screen (see Figure 101).
The initial password is 0123



[Figure 101]

Method 2: Use Phone Bluetooth to unlock the screen. Detailed steps are as follows:
Step 1. Click <Unlock with Bluetooth> (see ④ in Figure 100) and all paired phone will be in the list (see ① in Figure 102)
Step 2. Select the phone in the list to add it to the screen unlock list. You will see the screen prompt <XXX is added to screen unlock list> (see ② in Figure 102). When the phone that has been added to this whitelist is connected to S8's Bluetooth 1, it will unlock the screen within 1-2 seconds. You can add two or more phones to this list for unlocking the screen.



[Figure 102]

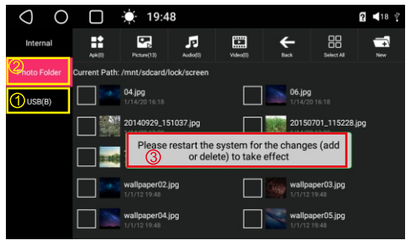
How to remove the phone from the screen unlock list?
Click the phones that have been added to the screen unlock list again and you will see the screen prompt <XXX is removed from screen unlock List>
If you forgot the new password, please reset the system by long pressing (6-8 seconds) a specific key (this will delete user data). The specific key is the "Next track" on ATOTO AC-44F5 remote control or factory steering wheel audio control (if applicable).
For S8 models with physical keys on the panel, the "Next track" key can also work for the system reset, while it is inapplicable with S8 models with touch buttons.

8.8. Screen Brightness Adjustment

See chapter 1.1 for further information.

9. Gallery Playback & Setup

Step 1. Put your favorite photos in an external storage device (see ① in Figure 103) and then copy them to <Photo Folder> in the File Manager app (see ② in Figure 103)



[Figure 103]

Step 2. Restart the system using option <Reboot> in the Drop-down menu (see Figure 4 in chapter 1.3).
This step is required when you add new photos or remove some from the current list, otherwise, the gallery playback function (standby mode)will not work properly.
Step 3. Click Gallery in Drop-down menu (see Figure 4 in chapter 1.3) to start the Gallery Playback function (Standby Mode) (see Figure 104).

[Figure 104]

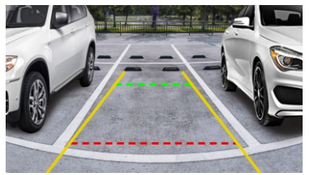
In addition, you can specify one of your steering wheel audio keys as a quick access button for starting the Gallery Playback function.
The icon in Figure 96 is for responding to the steering wheel audio key to start standby mode(gallery playback function).

10. Parking Assistance Input & Setup (Rear view Camera Input)

10.1. Rear view camera display settings

10.1.1. Camera display settings

Touch any place on the rearview screen (Figure 105) to enter into rearview camera display settings (Figure 106).

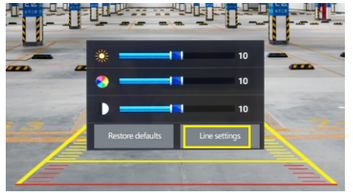


[Figure 105]

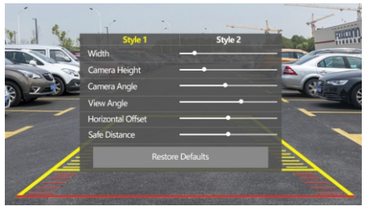
[Figure 106]

:Adjust the brightness between 0 - 10
:Adjust display color between 0 - 10
:Adjust display contrast between 0 - 10

If you have enabled Rear Camera Guide Line Switch (See ① in Figure 93) in system settings, you will see an extra option (Line Settings) that allows you to setup guideline in further steps (see Figure 107)



[Figure 107]



[Figure 108]

Width: Drag from left to right to adjust the distance between the 2 lines;
Camera Height: Drag from left to right to adjust the relative height of the entire guide lines on the camera;
Camera Angle: Drag from left to right to adjust the angle of the guide lines relative to the camera;
View Angle: Drag from left to right to adjust the view angle of the guide lines relative to the camera;
Horizontal Offset: Drag from left to right to move the entire guide line horizontally on the screen;
Safe Distance: Drag from left to right to increase the distance between the guide line and the camera lens;
You can change the guide line style by switching between <Style 1> & <Style 2> (see Figure 108)

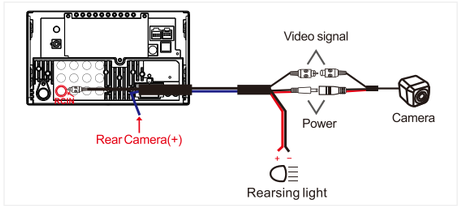
If the rearview display is reversed left and right, you can fix it through setting <Mirror Display Of Rear Camera). Refer to Chapter 8.4.4.

10.1.2. Rear Camera Compatibility Requirements

Below is the compatible cameras list:
(1). ATOTO AC-HD02LR 720P & AC-HD03LR (Analogue HD signal) Rear-view camera; This product model supports LRV (Live Rear-View) feature, allowing the user to view the rear-view video via <RCAM> app when the vehicle is not in reverse gear;
(2). ATOTO AC-4486/AC-0587N (CVBS) Rear-view camera;
(3).Aftermarket Rear-view camera that comes with a standard RCA plug, CVBS video signal output, and dedicated reversing signal wire;
(4).Vehicle's factory Rear-view camera that can provide a standard RCA plug, CVBS video signal output, and dedicated reversing signal wire for connecting to a head-unit;

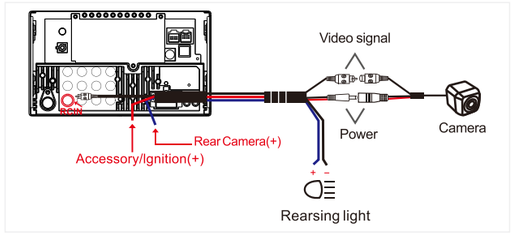
10.1.3. Two methods of Rear Camera Wiring Connections

10.1.3.1 Typical/regular wiring method: You can see the image of the rear camera on the screen only when you put the vehicle into reversing gear. This method applies to cameras mentioned in (2),(3),(4) of 10.1.2
The steps are as follows:
(1). Connect the power wires of the backup camera to the backup lights;
(2). Connect the RCA cable of the backup camera to the RCIN port on the back of the S8;
(3). Connect the signal wire of the backup camera to the <Rear Camera+> wire on the power harness of the S8. See Figure 109 for details;



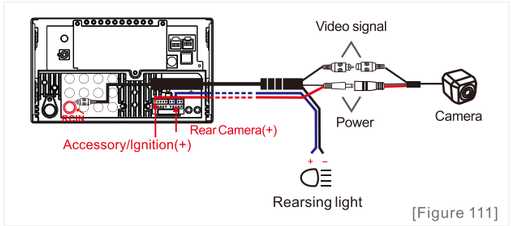
[Figure 109]

10.1.3.2 Innovative/Special wiring method: This method is applicable for connecting to cameras mentioned in (1) of 10.1.2; With this wiring method applied, you can see the image of the rear camera on the screen when you put the vehicle into reversing gear. Besides, you can also see the rear-view though the <RCAM> app even if your vehicle is not in reversing gear (aka Live Rear-View, LRV); See Figure 110 for wiring connection details;



[Figure 110]

If you want the LRV feature to work with typical/regular rear cameras (mentioned in (2), (3), (4) of 10.1.2), you need to make some changes for the wiring connection:
(1). Connect the positive pole of the camera's power cord to the S8's ACC wire, instead of the reversing lights. The ground wire of the camera can still be connected to the reversing light.
(2). Users may need to add an extra lead as the power wire of the aftermarket rear camera is not long enough for distance connection.
(3). Add an extra extension wire between the "Rear Camera+" (one pin in the S8 power harness) and the positive power wire of the backup light, since the camera's original power wire has been rerouted to S8's <Accessory / Ignition> wire. See Figure 111 for details;



[Figure 111]

10.1.4 Note:

(1). The rear-view camera for connecting to S8 must have a reversing signal wire which informs S8 of the status of the reversing light through the connection. Without it, the S8 does not know when to switch and you will not see a rearview video display even if your vehicle is in reverse gear.
(2). The video output signal of some factory cameras are not CVBS type, or its video output interface is not RCA type. In this case, you need a specific wiring converter or video signal converter to complete the installation.
(3). To access the rear-view quickly while using the LRV feature, you can set one key of your steering wheel (if applicable) as a shortcut in system settings (Steering Wheel Control Select > Key Settings>). This could act as a streaming rear-view mirror and increase driving safety.
(4). The rear-view camera is supplied separately.
(5). For the RCIN port, Accessory/Ignition (+) and rear camera (+) cables of S8 Lite version, please refer to another manual called <Panel Operation, Cable Connection and Installation>.

10.2. Simulated Panoramic View Function (Only available on selected S8 models)

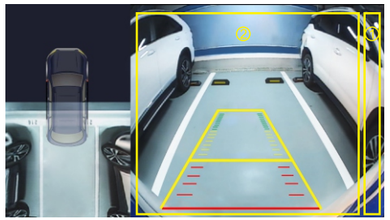
10.2.1. To use this feature, you need to:
(1). Choose the right S8 models. Only selected S8 models to come with this feature.
(2). Own a specified AC-HD03LR 720P HD Wide-angle rearview camera (180°-190°) (See Figure 118.4 in chapter 14.2). Traditional rearview cameras (including the vehicle's factory camera & ATOTO AC-HD02LR) will cause this feature to be unavailable, or impractical.
(3). Get an extra calibration cloth and complete the correct calibration steps

How does the Simulated Panoramic View feature works?

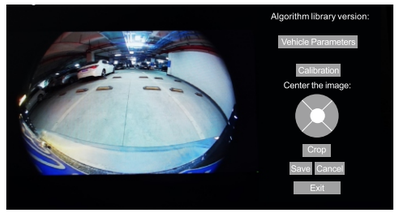
It uses a single camera to provide a surround virtual top view, that captures and displays all the areas the camera has seen since it starts to work. It scanned & remembered all the surroundings since it starts to work, and rebuilt a dynamic, simulative but almost same-size ratio surroundings view (where the barriers, other vehicles, or your vehicle is)

10.2.2. Enter into Simulated Panoramic View Settings

Click any area in ① (Figure 112) consecutively 6 times, then immediately click any area in ② (Figure 112) one time, you will enter the hidden settings (see Figure 113).



[Figure 112]



[Figure 113]

Detailed setup steps can be found in the package of calibration cloth. In addition, you can also watch the demo video of installation and calibration on the website https://support.myatoto.com
10.2.3. Installation requirements :
(1). When the rearview camera is installed on a vehicle with a trailer, a tow hook, or a spare tire at the rear, the Simulated Panoramic View function will not work properly.
(2). Once the camera is installed and the calibration is completed, the position or orientation of the camera cannot be changed. Otherwise, the image in the reversing display becomes useless. In this case, the calibration operation needs to be performed again.

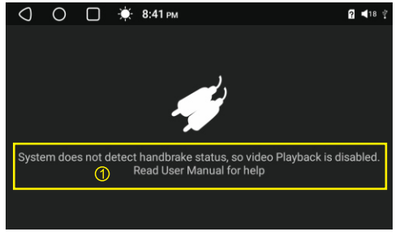
11.AUX & Front Camera Input

[Figure 114]

[Figure 115]

11.1. What can AUX input do on ATOTO S8?
Connect to devices that can output audio or video (or both) signals with the RCA jack. The application for playing this audio or video (or both) in S8 is the AUX app (see 114);

More about AUX cable connection, refer to another user manual named as <Panel Operation /Ports connection and Installation Instructions> in the package;
11.1.1. AUX Video Playback can only work when the vehicle is not in motion, or you need to cancel the<Disable video playback while in motion> option. Refer to chapter 4.2 & 8.4.1.



[Figure 116]

11.2. What can Front Camera input (FCAM app) do on S8?
Connect to a camera installed on the front of the vehicle for viewing surroundings ahead via S8's FCAM app (see Figure 115);
For more about FCAM video connection interface, refer to another user manual named <Panel Operation /Ports connection and Installation Instructions> in the package;
11.2.1 Touch any place of the screen on the front view display to trigger the Mirror Display icon .
If the front view display is reversed left and right, you can reverse it by clicking the icon and re-run the FCAM app.
11.2.2. In addition, you can specify one of your steering wheel audio keys as a quick access button for starting the Gallery Playback function. The icon FCAM in Figure 96 is for opening the FCAM app.

12. System Firmware Update

After the release of ATOTO S8, we will release system firmware from time to time to optimize and improve it to ensure its best performance.
When the new system firmware update is available, a notification will be put up in the notice section of the https://support.myatoto.com website, providing detailed update instructions;
It is recommended that users register a user account to receive email notifications of possible upgrades

13. About Fast Boot

13.1. How Fast Boot function works?

When you shut down your car engine and take the key off (some other cars require the driver to open the driving door to trigger), the S8 system will kill all running programs in about 5 minutes and then go into ultra-low-power sleep mode. So when you start the car, the system wakes up within 2s when receiving the ACC power signal.
The required current for maintaining system survival is less than 10mA. For a typical car battery capacity (40Ah-60Ah), the ultra-low power consumption status theoretically takes about 160-250 days to drain out the car battery. But with the MCU control program added, S8 itself will power off by inner clock if sleeping time is over 168hrs (7 days). So in 7 days, it will ONLY consume 2.5% - 4% of the total battery capacity. This is based on the assumption that users leave their car parked in the garage for long days without driving. If you drive your car daily, then the car battery is charged timely, so the system MCU chip will not power off until the user manually shut it down. If you park your car for more than 7 days, then you will find that the next time you start your car, it takes 20-25s for the system to boot.
This technology has been verified by more than 100,000 users in the past (ATOTO A6 & F7 series) and is reliable enough.

13.2. Cautions

⚠ In order to ensure that the Fast Boot function can work properly, the two vital wires <12v Ignition/ACC> & <12v Constant Power /Battery> in the power harness should be correctly wired. Improper wiring will cause the S8 to fail to enter sleeping mode (the screen is always on), or the hibernation process to be interrupted so that it takes 20-30 seconds to restart completely;

14. Expanding the capabilities of the S8

With lots of inputs, outputs, slots, plus exclusive Bluetooth 2, S8 can connect to a variety of external devices. These accessories for connecting to the S8 to extend its functionality are not included in the S8's package. They all need to be purchased separately. Some are customized by ATOTO, others are not provided by ATOTO, and users need to get them by themselves.

14.1. Connecting to ATOTO HD DVR On dash Camera to browsing recorded video files on S8's large screen;

[Figure 117.1]

[Figure 117.2]

Connection Method: USB interface

An extra HD DVR app is required to be installed in S8 in order to browse the video files and setup the camera. Usually, it is included in the system firmware. In case yours may not have this specific HD DVR app, you need to install it manually.

14.2. Connecting to a regular rearview camera, or specified ATOTO HD Rearview camera, or a front camera.
See chapter 10 & 11;

[Figure 118.1]
AC-4486

[Figure 118.2]
AC-0587N

[Figure 118.3]
AC-HD02LR

[Figure 118.4]
AC-HD03LR

Connection Method: Specified RCIN video input

14.3. Working with ATOTO AC-44F5 Wireless IR Remote

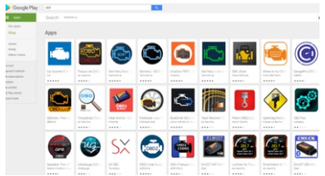
ATOTO AC-44F5 [Figure 119]

For cars without steering wheel audio control, ATOTO AC-44F5 wireless IR Remote is highly recommended for safe operation

Connection Method: IR Wireless (Transmitter) + Specified 3.5mm jack (Receiver)

14.4. Connecting to a Bluetooth OBD Car Diagnostics & Scanner

There is a Torque OBD app pre-installed (see Figure 120.2), but you can also install alternative apps from Google Play Store (see Figure 120.1)



[Figure 120.1]

[Figure 120.2]

ATOTO AC-4450 [Figure 120.3]

To use this feature, you need to have a Bluetooth OBD Car Diagnostics & Scanner (see Figure 120.3) that connects to a vehicle's OBD interface for reading the engine's computer information.

Connection Method: Bluetooth 2

14.5. Connecting to ATOTO AC-UTP1 USB Tire Pressure Monitoring System

[Figure 121.1]

[Figure 121.2]

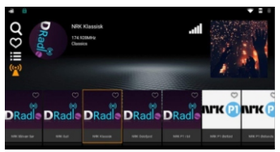
The ATOTO AC-UPT1 (& AC-UPT2) tire pressure monitoring system will display abnormal tire information (pressure, temperature and which tire) on the system screen (see 121.1) so that driver can take measures as early as possible.
An extra TPMS app (see 121.1) is required to be installed in S8 in order to view tire information and set up the TPMS sensors. Usually, it is included in the system firmware. In case yours may not have this specific TPMS app, you need to install it manually.

Connection Method: USB interface

14.6. Connecting to ATOTO AC-4470 USB Dab+ radio receiver

ATOTO AC-4475

[Figure 122.1]



[Figure 122.2]

An extra Dab+ app (Figure 122.2) is required to be installed in S8 in order to view the Dab+ program list and control the device (Figure 122.1). Usually, it is included in the system firmware. In case yours may not have this specific Dab+ app, you need to install it manually.

⚠ Currently, the Dab+ radio program is only available in certain European countries. So users from non-European areas do not need this device.

Connection Method: USB interface

14.7. (※) Connecting to headrest monitors

[Figure 123.1]

[Figure 123.2]

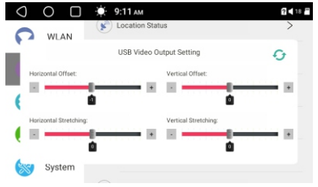
[Figure 123.3]

[Figure 123.4]

14.7.1 The Built-in Video Output feature on S8 (Gen2) allows users to connect S8 to a headrest monitor (Figure 123.2) that comes with HDMI or CVBS RCA video input, and what's displayed on the S8 will be synchronized on the headrest monitors (Figure 123.1).

14.7.2 An extra ATOTO brand USB to HDMI video-out adapter (AC-AHV68, see Figure 123.3) or an extra ATOTO USB to CVBS RCA video-out adapter (AC-AHV48, see Figure 123.4) is required to order separately.
If your headrest monitor supports CVBS RCA video input, please order the ATOTO AC-AHV48 (USB to CVBS RCA video-out adapter) separately. If your headrest monitor supports HDMI video input, please order the ATOTO AC-AHV68 (USB to HDMI video-out adapter) separately. If your headrest monitor supports both the CVBS RCA video input and HDMI video input, you can order any one of these two adapter models.

14. 7.3 Connection Method(USB interface):
Use the ATOTO brand video-out adapter (AC-AHV68 or AC-AHV48, sold separately) to connect the monitors to the S8 via the S8 USB interface(except the USB interface used for a quick charge).



[Figure 124]

Horizontal Offset: Move the display of the monitor horizontally
Horizontal Stretching: Stretch the display of the monitor horizontally
Vertical Offset: Move the display of the monitor vertically
Vertical Stretching: Stretch the display of the monitor vertically
:Click to restore the settings.

14. 7.4 USB Video Output Settings
(Path: System Settings>Device>USB Video Output Settings)

14. 8. Attentions

The above are the common optional accessories for S8.
There may be some accessories not mentioned above that can also be connected to the S8 through USB or Bluetooth 2 to expand the functions. Of course, there are some devices based on USB interface connection or Bluetooth connection that may not work on the S8 due to compatibility issues.
When connecting multiple accessories to the S8, pay attention to the number of available interfaces and the concurrent bandwidth that can be supported.

15.Ways to Obtain Help

If you have any questions during the installation of S8 & daily use, or you need help when you encounter difficulties, you can get help in following ways:
(1). Contact the ATOTO dealers or ATOTO online sellers who provided you with S8;
(2). Send an email to support@myatoto.com. ATOTO customer support team will reply within 48 business hours, and most emails will be responded to within 24 business hours.
(3). Visit the ATOTO online customer service support system https://support.myatoto.com to get the latest software download, or discuss with other S8 users.

16. Appendix (Product Specifications)

Specifications	
Part	**Specifications**
Operating System	ATOTO AICE UI 11.0 (Based on Android 10)
SOC chipset	CPU: UIS7862 Octa-Core 1.8GHz (2*ARM Cortext A75 + 6*ARM Cortext A55); GPU: Mali G52 MP2. 12nm process technology. Applied on Selected S8 models
	CPU: UIS9863 Octa-Core 1.6GHz (ARM Cortext A55); GPU: PowerVR GE8322; 28nm process technology. Applied on Selected S8 models
Memory	Internal RAM/ROM: It can be 2GB+32GB, 3GB+32GB, 4GB+64GB, or 6GB+128GB, depending on the specific model you selected *The available internal storage may be smaller as part of the internal storage is occupied by software. Actual memory space may change due to application updates, user operations, and other related factors
	External Micro-SD card: support up to 512GB. For S8 (Gen 2) Lite version, external SD slot is not available
WiFi Network	Wi-Fi:802.11 b/g/n MAC/BB/RF
	Wi-Fi band: 2.4GHz, 5GHz
	Wi-Fi Hotspot 2.0

Part	Specifications		
Moden Network	Frequency Bands Supported	For S8 models with the suffix "-N"	2G:GSM 850, GSM900, GSM1900 3G WCDMA:B1,B2,B4,B5,B8 4G:B1, B2, B4, B5, B7, B8, B12, B13, B17, B19, B25, B26, B38, B41
		For S8 models with the suffix "-A"	2G:GSM 850, GSM900, GSM1800, GSM1900 3G WCDMA:B1, B2, B5, B8 4G:B1,B2,B3,B7,B8,B19, B20, B25, B26,B28A,B28B, B34,B38, B39,B40,B41
		This function is only available on selected S8 models	
Monitor	Screen Size(inch): Depending on the specific model, it can be from 7-inch to 10.1 inches (diagonal)		
	Display Resolution: HD 1024*600 for 7-inch models. 1280*720 for 8-inch, 9-inch and 10.1-inch models		
	Display system: Depending on the specific model, it can be IPS LCD display panel, or QLED (Quantum film LED-backlit LCD technology).		
	Lighting Brightness: 600cd/m2		
Radio	Reception Band	FM (65-108MHz); AM (522-1710KHz)	
	RDS Decoder	YES	
	Digital Audio Out	YES	
	Stereo Audio DAC	YES	

Part	Specifications	
Bluetooth	Bluetooth1	Bluetooth Version: Bluetooth 5.0
		Protocol: HFP,HSP,A2DP,AVRCP,PBAP
		A2DP Audio playback support: SBC Selected S8 models may also support AAC, Qualcomm aptX & aptX HD
		Channel output: Stereo, Mono
	Bluetooth2	Bluetooth Version: Bluetooth 4.1; Support Bluetooth Tethering & BLE Connection
DSP Acoustics	EQ Band	32 Bands (Front 16 Bands + Rear 16 Bands)
		S8 Lite version: 36 Bands (Front 18 Bands + Rear 18 Bands)
	Frequency	30/50/80/125/200/320/500/800/1.0k/ 1.25k/2.0k/3.0k/5.0k/8.0k/12.0k/16.0k (Hz)
		S8 Lite version: 24/36/53/80/120/170/260/ 390/570/850/1.3K/1.9K/2.8K/4.1K/6.1K/ 9.0K/14K/20K (Hz)
	Gain	-12/-11/-10/-9/-8/-7/-6/-5/-4/-3/-2/-1/0/ 1/2/3/4/5/6/7/8/9/10/11/12 (dB)
		S8 Lite version: 10/-9/-8/-7/-6/-5/-4/-3/ -2/-1/0/1/2/3/4/5/6/7/8/9/10/ (dB)
	Preset EQ: Standard / Jazz / hall / Soft / Classic / Cinema / Rock / Pop	

Part	Specifications	
Pre-Amplifier	Power Output	For S8 Lite & Standard models: 4 x 45w/ 4 Ω max. 4 x 25w RMS/ 4 Ω @ 14.4 V, 1 kHz, THD 10 %
		For selected S8 models: 4 x 49w/ 4 Ω max. 4 x 29w RMS/ 4 Ω @ 14.4 V, 1 kHz, THD 10 %
	Impedance:	For S8 Lite & Standard model:4-8Ω
		For selected S8 models: 2-8Ω
	Output Frequency Band	20-22000Hz
Media Playback	Audio	D/A Converter: 24Bit
		Audio decode: WAV, MP3, MP2, FLAC,APE AAC, AMR-NB, AMR-WB, MIDI, Vorbis, AAC-plus v1, AAC-plus v2, WMA, ADPCM
	Video	- H.263/H.264/DIVX4-6/XVID Decoder: 1080p@30fps -MPEG-4 Decoder: 1080p@30fps -MPEG-2 Decoder: 1080p@30fps -VP8/VP9 Decoder 1080p@30fps -HEVC/H.265 Decoder: 720p@30fps

16 Appendix (Product Specifications)

Part	Specifications	
GPS	Supports GPS/QZSS/SBAS (WAAS/MSAS/ EGNOS/GAGAN)	
	Position Ability: -163 dBm hot start sensitivity -148 dBm cold start sensitivity -151 dBm warm start sensitivity	
	Full A-GPS capability (E911/SUPL/EPO/Hot Still)	
	Satellite channel: 20 channels	
	Positioning accuracy: <10m	
Output & input	USB Data interface	2~3 USB interfaces, varying from model to model;Power output: 5V, 500-800mA during data transfer
	USB Quick Charge interface	Power charging protocol integrated: DCP, QC2.0,QC3.0,MTK,PE1.1,PE2.0,FCP,SCP, AFC,SFCP. Output Voltage Range: 3V to 12V, automatically adjusted according to the fast charge protocol f the phone; Power Output: Max 24W (4V@3.6A, 5V@3.4A, 9V@2.5A, 12V@2)Intelligent over-current, over-voltage, under-voltage, short-circuit protection. *Only available on selected S8 models.

Part	Specifications	
Output & input	Audio Out	4 x RCA Out (2V/10kΩ): Labeled as <FL>/<RL>/<RL>/<RR>
		1 x RCA Subwoofer Out(1V/10kΩ): Labeled as <SUB>
	AUX Audio Input	2 x Audio Input (Left / Right) (Max 1V/25kΩ) : Labeled as <LIN>/<RIN>
	AUX Video Input	1 x Video Input (1Vp-p/75Ω) : Labled as <VIN>
	FCAM video input	1 x Video Input (1Vp-p/75Ω) : Labeled as <Front Camera In>
	Rear View Camera Input	1 x Video Input (1Vp-p/75Ω) : Labeled as <RCIN>
	Video Output	Not available. An extra ATOTO USB to HDMI/RCA video-out adapter (AC-AHV68 or AC-AHV48,not included) is required for connecting to headrest monitor.
	Optical Output	1 x SPDIF Digital Audio Optical output (TOSLINK), Labled as <SPDIF>; Only available on selected S8 Models
General	Operation Voltage: 12v DC car battery	
	Rated Current Consumption: 15A	
	Operation Temperature Range: -20℃ ~ +60℃	