

[Figure 25]



[Figure 26]

	Dialpad for making a call manually;
	Click to start a call
	Delete the last number
	Phone Contacts;
	Click to refresh phone contacts
	The Call Log of the phone will be displayed here;
	Click it to enter into Bluetooth Audio Streaming option;
	Bluetooth Audio Remote Control button (AVRCP)
	At call log page, select the desired number from the call history, then tap icon to start a phone call.

4.4. Precautions

When a phone connects to F7 via Bluetooth option for the first time, F7 will send a request for sync phone contacts once you click this icon. You need to select <YES> for all prompts on your phone.



[Figure 27]

5.Mobile Media Playback (USB / MicroSD)

5.1 Device requirements

MicroSD storage: up to 512GB; USB flash drive: up to 2TB
Compatible file system: FAT32 , NTFS, exFAT.

5.2 How each button/icon app works



[Figure 28]



[Figure 29]

	Short press it to skip to the previous track.
	Pause/Play button.
	Short press it to skip to the next track.
	Press it to select between Repeat All, Repeat One, or Repeat Directory
	Press it to select between <random play> and <play in order>
	Press it to view available files from an external storage device (USB/micro SD)
	Files or folders filtered by Audio Format
	Files or folders filtered by Video Format
	Files or folders filtered by Image Format

NOTES

- (1). Audio Playback in this option has memory function and can play from where it is left last time. To add all the latest music files in the external storage into the playlist, it will automatically scan the device every time after plug-in.
- (2).If your media files are organized in folders, and you need to browse and play files in other folders, you may need to click the to browse all folders available in the device, and then scroll and select the one you want;
- (3).When using USB or MicroSD to update the system firmware, please format it as <FAT32>, <NTFS> or <exFAT> before proceeding, otherwise, the update process may fail;

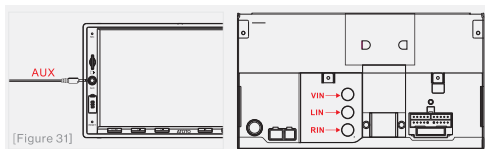


[Figure 30]

6.A/V in

6.1 Audio/Video Input

There are 3 RCA jacks from the back of F7 for A/V input connection - one for video input (labeled as <VIN>), and the other two for audio input (labeled as <LIN> & <RIN>)



[Figure 31]

For selected F7 models, there is also a <AUX> jack on the operation panel, which is equivalent to the <LIN> & <RIN> on the back, only accepting 3.5mm audio input. Note: When both the front <AUX> and rear <LIN> & <RIN> are connected simultaneously, their audio input will intermix. To prevent this, it's recommended to use either the

front <AUX> or the rear <LIN> & <RIN> as your sole audio input source, thereby eliminating any potential for blending different audio sources.

6.2 How it works

Connect to devices that can output audio or video (or both) signal with RCA jack. The application for playing this audio or video (or both) is <AUX> option from the <Home> More about AUX cable connection, refer to another user manual named as <Panel Operation /Ports connection and Installation Instructions> in the package; AUX Video Playback can only work when the vehicle is not in motion. Check if <parking brake> wire from the power cable is correctly connected, or you need to disable <Video Prohibition Switch> option;

7.Rear Camera/Front Camera Connection

7.1 Rear Camera Connection

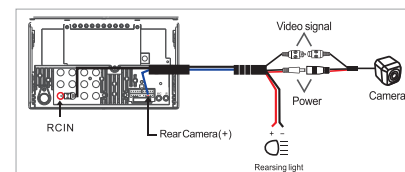
7.1.1.Camera Compatibility Requirements

Below are the compatible cameras list:

- (1). ATOTO AC-HD02LR 720P (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 <R-CAM> option 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;

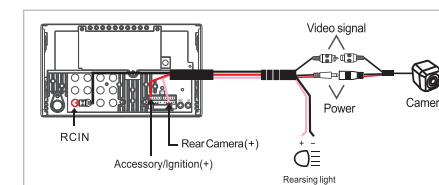
7.1.2.Two methods of Rear Camera Wiring Connections

7.1.2.1 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 7.1.1 The steps are: (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 F7; (3). Connect the signal wire of the backup camera to the <Rear Camera+> wire on the power harness of the F7. See Figure 32 for details;



[Figure 32] (The chassis layout varies by model)

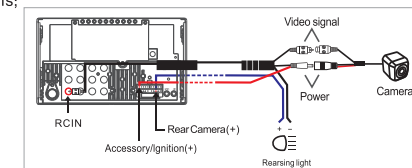
7.1.2.2 Innovative/Special wiring method: It is only available on selected F7 models that come with <R-CAM> option in the <Home> and related hardware support; This method is applicable for connecting to cameras mentioned in (1) of 7.1.1; With this wiring method applied, you can see the image of the rear camera on the screen when you put the vehicle into reversing gear. Besides, you can also see the rear-view through the <R-CAM> even if your vehicle is not in reversing gear (aka Live Rear-View, LRV); See Figure 33 for wiring connection details;



[Figure 33] (The chassis layout varies by model)

If you want the LRV feature to work with typical/regular rear cameras (mentioned in (2), (3), (4) of 7.1.1), you need to make some changes for the wiring connection.

- (1). Connect the positive pole of the camera's power cord to the F7'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 F7 power harness) and the positive power wire of the backup light, since the camera's original power wire has been rerouted to F7's <Accessory/Ignition> wire. See Figure 34 for details;



[Figure 34] (The chassis layout varies by model)

7.1.3 NOTES

- (1).The rear-view camera for connecting to F7 must have a reversing signal wire which informs F7 of the status of the reversing light through the connection. Without it, the F7 does not know when to switch and you will not see rear-view 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 (Settings > SWC Key). This could act as a streaming rear-view mirror and increase driving safety; It is only available on selected F7 models;
- (4).The rear-view camera is supplied separately;

7.2 Front Camera Connection

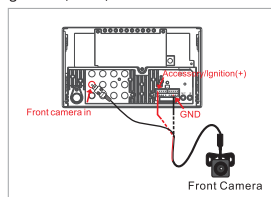
7.2.1 How it works on F7

This option is only available on selected F7 models. There is a specific video input labeled as <FCAM>, and a system option named as <F-CAM> on F7, and the user needs to install a compatible camera to the front of the vehicle for viewing surroundings ahead;

An aftermarket Rear-view camera can also be used for front-view, but users need to add an extension cable so that the power supply of the camera can be changed from reversing lamp to F7's <Accessory/Ignition> wire. And you may need to flip the image of the front camera horizontally(refer to 7.3. Camera Settings).

7.2.2 Camera Wiring Connections

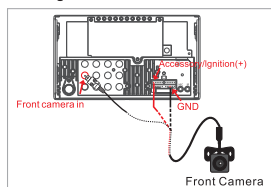
Connect the positive power wire of the front camera to the vehicle's accessory/ignition(+12v) in the car fuse box; connect the ground wire of the front camera to the vehicle's chassis ground(GND) in the car fuse box. See Figure 35 for details.



[Figure 35]
(The chassis layout varies by model)

If you use a regular rearview camera for front view connection
(1). Connect the camera's power cord to the F7's ACC & Ground wire, and Reversing lamp detecting wire of the camera just remains disregarded.

(2). Users may need to add an extra lead as the power wire of the rear camera may be not long enough for distance connection. See Figure 36 for details.

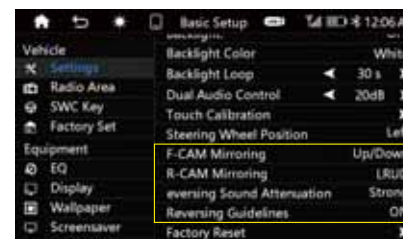


[Figure 36]
(The chassis layout varies by model)

7.2.3 NOTES

- (1). The front-view camera is sold separately;
- (2).This option is only available on selected F7 models;
- (3).To quickly access the front view, you can set a key of the steering wheel (if applicable) as a shortcut in the system settings (steering wheel control selection> key settings);

7.3 Camera Settings



[Figure 37]

<F-CAM Mirroring> : Normal view or Reverse view;
Enable this option to display a left-right up-down, or LRUD reversed image of the front camera. It applies to the front camera that displays left-right, up-down, or LRUD reversed;
"Left-right": What was on the left side of the image is now on the right, and vice versa.
"Up-down" :What was on the top of the image is now on the bottom, and vice versa.

"LRUD" (Left-Right-Up-Down): This option would flip the image both horizontally and vertically, essentially rotating the image 180 degrees.

<R-CAM Mirroring> : Normal view or Reverse view;Enable this option to display a left-right , up-down, or LRUD reversed image of the rear camera. It applies to the front camera that displays left-right, up-down, or LRUD reversed;

<Reversing Sound Attenuation>:When it's enabled, it automatically lowers the volume of your audio when you shift your car into reverse. This helps reduce distractions, allowing you to better hear important sounds from your surroundings when backing up.

The audio volume resumes its previous level when you shift out of reverse.

OFF: This option will not reduce the audio volume when you shift into reverse.

Mute: This option will completely silence the audio when you shift into reverse.

Strong:This option will slightly lower the audio volume so the audio volume is relatively high.

Medium: It's a moderate decrease in volume.

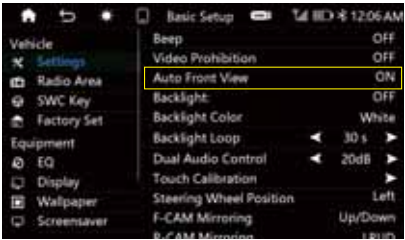
Weak: This will significantly lower the volume so the audio volume is relatively low.

<Reversing Guidelines> On/Off

Enable this option to add guidelines on the screen when rear camera images display. It applies to the rear camera that does not have guidelines on the display;

NOTES

- 1.The reversing guidelines are not adjustable.
- 2.When the video is playing in the the video playback, shifting to reverse will pause the video.



[Figure 38]

<Auto Front View>On/Off
Enable this option to automatically switch from rear to front view camera when shifting from reverse to a forward gear, aiding in navigating out of tight or narrow spaces.

8.Settings

8.1 System Settings

8.1.1 Language

15 language options: English,Spanish,French,German,Portuguese, Russian,Japanese, Italian, Polish, Korean,Turkish, Simplified Chinese, Traditional Chinese and Arabic. New languages may be added in future firmware update;

8.1.2 Date & Time



[Figure 39]

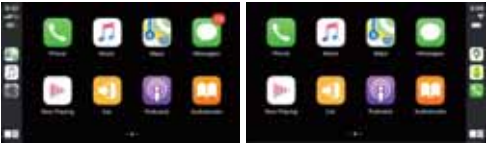
(1).Touch to set date, time, and time format(24H, 12H);
(2).In addition to manual time setting, F7 also allows to update the system time via <Android Auto>, <CarPlay>, or Bluetooth Connection;

8.1.3 Beep:

Touch Sound Switch. Click to disable or enable this option.

8.1.4 Steering wheel Position

This option allows you to change the display layout of Apple CarPlay to adapt left-hand / right-hand drive vehicles



[Figure 40]

[Figure 41]

8.1.5 Steering Wheel Control

SWC Key: This option allows you to map or custom the steering wheel control keys manually;



[Figure 42]

Mapping process:

Step 1:Start by holding down the key on your steering wheel.

Step 2:Then short press the corresponding key shown on the head unit.

The frame of the selected key will turn blue, which means the mapping is successful.

Step 3:Follow the same operations to map the rest keys.

Step 4:Once completed, tap 'OK' to save all the key mappings.

If you want to remove all the saved settings and remap the keys, tap icon, then follow steps above to start again.

NOTES

This feature requires your car to have a factory steering wheel audio control option (shorted for SWC, based on resistive analog signal input only); if your vehicle uses a digital CANBUS data signal, and you can find an applicable digital-to-resistive converter from a third-party supplier, SWC feature can still be retained. 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;

8.1.6 Factory Reset

Please note this operation will erase all user settings.

You can restore the system to factory settings via this option, which will remove all personal data and settings.

*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.

8.1.7 Version / System Update



[Figure 43]