After the release of ATOTO F7, 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://www.myatoto.com/ website, providing detailed update instructions;
It is recommended that users register a user account to receive email notific-ations of possible upgrades.

8.2 Display Settings
8.2.1 Display

[Figure 44]

Slide to adjust the screen brightness, contrast, saturation.

8.2.2 Wallpaper
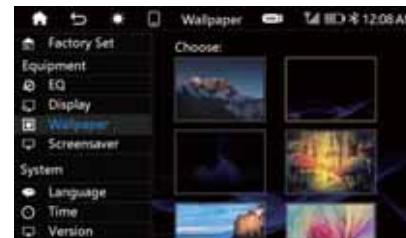
[Figure 45]
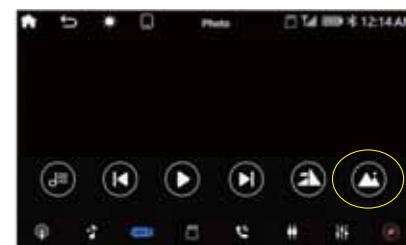
[Figure 46]

Two ways to set a wallpaper for F7
(1). Preset: There are preset wallpapers, and it will apply immediately when selected.
(2). Add manually: The system allows users to put qualified images in a USB flash drive or Micro SD card. Select a picture and tap the circled icon to set it as wallpaper.

**8.2.3 Screensaver**
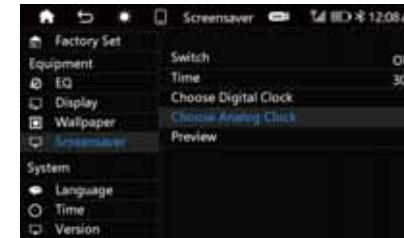
[Figure 47]

You have the option to turn the screensaver function ON or OFF. You can also set the time duration for the screensaver to activate when the screen is idle. Choose the style of the screensaver clock and you'll be able to preview the selected style immediately.

8.2.4 Video Prohibition
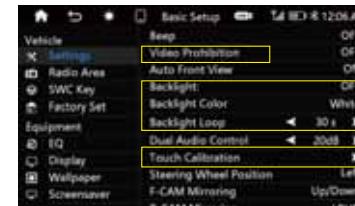
[Figure 48]

(1).For your safety, users cannot watch videos while driving the vehicle. There is a specific cable labeled as <Parking Brake> from the back of F7 for detecting the status of your vehicle's hand brake (if applicable). When it is correctly connected and this option is enabled, you will see a notice on the video playback screen (Figure 49) while your vehicle is in motion, and it will disappear once your vehicle is parked and your hand brake is applied;
(2).This option only applies when you run <AUX>, <F-CAM>, or Play video via <Mobile Media Playback> option;
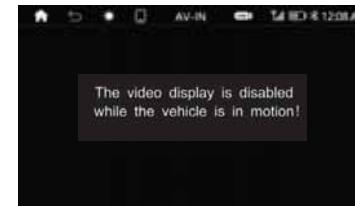
[Figure 49]

8.2.5 Backlight
You have the option to turn the backlight for the panel keys ON or OFF. Choose a color for the panel key from Yellow, Blue, Green, White, Purple, Red, Cyan, or Loop. If "Loop" is selected in the Backlight Color settings, the panel key will continuously cycle through the above-mentioned colors. The duration of each color in the loop can be adjusted from 1 to 30 seconds (see Figure 48).

8.2.6 Touch Calibration
The purpose of the touch calibration feature is to ensure that the position of the text on the car stereo interface matches the actual response location when tapped (see Figure 48).

**8.2.7 Logo Settings**

[Figure 50]
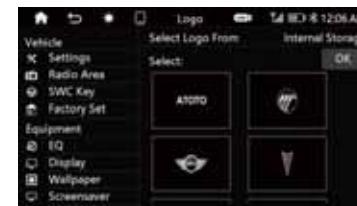
[Figure 51]

Navigate to 'Factory Set' and use password 2860 to access the logo settings interface. You have two options for setting the logo:
1. Internal Storage: Choose the logo directly from the internal storage.
2. External Storage: If your car logo isn't available in the internal storage, you can create a JPG image of your car logo and save it in a file named "Logo". Transfer this "Logo" file to a USB drive or Micro SD card, and F7 will identify it as the externally stored logo.
8.3 Audio & EQ settings
8.3.1 EQ

[Figure 52]

7 preset EQ sound effects are <Standard>, <R&B>, <Rock>, <Pop>, <Hip Hop>, <Jazz>, <Dance>. Manual changes of any one from the preset will be automatically saved in <Custom>; Tap Default to restore.
8.3.2 Balance / Equalizer

[Figure 53]

Touch [+] or [−] , or move the [icon] icon to adjust the listening position.
The value of Fade(FAD) Front 7 – Rear 7
The value of Balance(BAL) Left 7 – Right 7

8.3.3 Subwoofer Output:
Touch to adjust the external subwoofer volume.

8.3.4 Dual Audio Control:
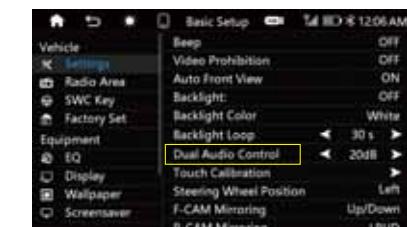
[Figure 54]

To adjust the media volume from 0dB to 15dB when running navigation in CP/AA and listening to the radio or playing music from a USB flash drive simultaneously .

9.Capabilities Expansion

With lots of inputs, outputs, slots, F7 can connect to a variety of external devices. These accessories for connecting to the F7 to extend its functionality are not included in the package. They are provided separately. For accessories customized by ATOTO, you can find them either on Amazon ATOTO brand store or the ATOTO official website at https://www.myatoto.com. For accessories not provided by ATOTO, you may need to get them by yourself.

9.1.Connect to a regular aftermarket rear-view camera

Connect to a regular aftermarket rear-view camera, or specific ATOTO HD Rear-view camera for Live Rear-View, or a specific front camera.
See Chapter 7 for details;

[Figure 55](AC-4486)   [Figure 56](AC-HD02LR)

Connection Method: Specific RCIN video input

9.2. Upcoming ATOTO USB DVR Connectivity

F7's app list includes the DVR-CAM app, this indicates future compatibility with the ATOTO USB DVR AC-44P4.
Once this product is released, we will update the information in the F7 product description accordingly. Additionally, you can also find the AC-44P4 on the Amazon ATOTO brand store and the ATOTO official website at https://www.myatoto.com.

(Note: On F7, the app for DVR is named "DVR-CAM", while on ATOTO android head units, it's named "DVR CAM".)

9.3.Work with ATOTO AC-44F5 Wireless Steering Wheel Remote

[Figure 57]

For cars without steering wheel audio control, ATOTO AC-44F5 wireless Remote is highly recommended for safe operation
Connection Method: Wireless (Transmitter)
+ Specified 3.5 mm jack (Receiver)

9.4.Work with ATOTO AC-HAV50 HDMI to AHD Video Converter:

This handy device offers a conversion of digital HDMI to AHD, supporting high-definition resolutions up to 720p for an immersive theater-like experience. Its compatibility ranges from PlayStation game consoles to Google Chromecast and Apple TV boxes. With a simple plug-and-play design, you can effortlessly enjoy your favorite movies, shows and games just on F7.

[Figure 58](AC-HAV50)

9.5.Connect to headrest monitors

The built-in Video Output feature allows users to connect up to 2 monitors to F7 via RCA Video Out interface, and what's displayed on the F7 will be synchronized on the headrest monitors.The headrest monitor connected to F7 should accept RCA CVBS signal video input.
Connection Method: Specific video Output
This option is only available on selected F7 models

[Figure 59]

9.6.Upgrade your F7 to Versatile Android System with the ATOTO AD6 Android-based CarPlay Adapter:

Upgrade your CarPlay head unit with our AD6 adapter, which adds a fully-functioning Android system to your dashboard.
You can enjoy Wireless CarPlay and Android Auto, along with a world of apps, such as YouTube and Netflix. Plus, you can keep track of your vehicle with ATOTO's exclusive GPS tracking app "TrackHU" and easily check your car's diagnostics through the preinstalled "Torque" app.

[Figure 60](AD6)

9.7.Enhance your audio experience with ATOTO CA-AEC02 Power Pack:

Delivering a powerful 60W RMS x 4 at 4Ω, this compact full-range amplifier significantly amplifies your sound system's output. Its high-frequency performance captures every note, providing you with a high-quality sonic experience. It's compact, easy to install, and compatible with a range of ATOTO, aftermarket, and factory head units.

[Figure 61](CA-AEC02)

9.8.Work with ATOTO CS-651DST Component Speakers and ATOTO CS-651DC Coaxial Speakers:

Give your car audio a major upgrade with the CS-651DST component speakers and CS-651DC coaxial speakers. The CS-651DST comes with 6.5" woofers, 1" tweeters, and external crossovers, delivering up to 250 watts of peak power and 70W RMS power. The CS-651DC offers clarity and balance with a frequency response of 40 Hz - 20 kHz, 230W peak power, and 60W RMS power. Both are designed to make all genres of music come alive in your car, promising a concert-like experience every time you drive.

[Figure 62](CS-651DST)

[Figure 63](CS-651DC)

9.9.Work with ATOTO CS-101SW Slim Amplified Subwoofer:

Discover the deep, resonating bass tones with our CS-101SW 10 inch slim amplified subwoofer. It provides 150 watts of RMS power and 400 watts of peak power, letting you immerse yourself in a rich audio experience.
It comes with adjustable low-pass filters, bass boost, and a wired remote control for precise sound adjustments.

[Figure 64] (CS-101SW)

9.10.Attentions
The above are the common optional accessories for F7. They are provided separately. Some are customized by ATOTO, others are not available from ATOTO, and users need to get them by themselves.

10.Appendix (Product Specifications)

Specifications	
Part	**Specifications**
Operating System	RTOS V
SOC Chipset	AL-F133
Monitor	Screen Size(inch): Depending on the specific F7 model, it can be from 6.2 in to 10.1 inches (diagonal)
	Display Resolution: HD 1024*600 or 1280*720 depending on the specific model
	Display system: Depending on the specific model, it can be TN-LCD, IPS-LCD, or QLED (quantum film LED-backlit LCD technology).
	Lighting Brightness: 450 - 600 cd/m2
Radio	Reception Band: FM:65-108MHz, detailed band range varies by regions; Preset station: 3*6=18 stations
	Reception Band: AM:522-1710KHz; detailed band range varies by regions; Preset station: 2*6=12 stations
	RDS Decoder: YES
	Stereo Audio DAC: YES

Bluetooth	Bluetooth Version: 4.2 or 5.0 depending on the specific model	
	Protocol: HFP,HSP,A2DP,AVRCP,PBAP	
	A2DP Audio playback support: SBC, ACC	
	Channel output: Stereo, Mono	
DSP Acoustics	Chipset: BD37033	
	EQ Band: Standard,R&B,Rock,Pop,Hip Hop, Jazz,Dance,Custom	
	Frequency: 30/60/125/250/500/1.0k/2.0k/4.0k /8.0k/10.0K/12.0K/16.0k (Hz)	
	Gain: -7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7(dB)	
	Subwoofer Filter: 0-34dB	
Pre-Amplifier	Power Output	For F7 basic models: 4 x 45w/ 4 Ω max. 4 x 25w RMS/ 4 Ω @ 14.4 V, 1 kHz, THD 10 %; Impedance:4-8Ω
	Output Frequency Band	20 – 22000 Hz
Media Playback	Audio DAC	D/A Converter: 24Bit
	Audio/Video/Image	Audio: AAC/APE/FLAC/ATRC/AMR /ALAC/M4A/MP3/OGG Vorbis/COOK /WMA
		Video: 1080P/ASF/AVI/DAT/FLV/WMV /Sorenson/VOB/M4V/3GP/H263 /H264/H265/MKV/PMP/MPG/MPEG1 /MPEG2/MOV/MP4/MPEG4/TS/TP /RMVB/ RV8/RV9/RV10/VC1 (720x576)/M2TS Image:JPEG/BMP/JPG/PNG

USB Interface	Phone Link	USB 1 (labeled as <Phone Link>) supports CarPlay, Android Auto and AutoLink (MirrorLink) Connection
	Portable Media Playback	Both USB1 & USB 2 support Media Playback, and can read up to 2TB portable SSD device (FAT32/NTFS/exFAT)
Output & Input	Audio Out	4 x RCA Out (2V,4V/10kΩ): Labeled as <FL>/<RL>/<RL>/<RR>
	AUX Audio Input	1 x RCA Subwoofer Out(800mV/10kΩ): Labeled as <SUB>
		2 x RCA Audio Input (Left / Right) (Max 2V/25kΩ) : Labeled as <LIN>/<RIN>
	AUX Video Input	1 x RCA Video Input (1Vp-p/75Ω) : Labled as <VIN>; It supports both CVBS signal and Analog HD signal video source;
	FCAM video input	1 x RCA Video Input (1Vp-p/75Ω) : Labeled as <Front Camera In>; It supports both CVBS signal and Analog HD signal video source;This option is only available on selected F7 models;
	Rear View Camera Input	1 x RCA Video Input (1Vp-p/75Ω) : Labeled as <RCIN>; It supports both CVBS signal and Analog HD signal video source
	Video Out	2 x RCA Video Out (1Vp-p/75Ω). Labeled as <Video Out 1> / <Video Out 2>
	SWC Jack	Works with ATOTO AC-44F5 Steering Wheel Remote Control

General	Operation Voltage: 12v DC car battery
	Rated Current Consumption: 15A; Standby Current:10mA
	Operation Temperature Range: -20℃ - +60℃

FCC Statement

This equipment has been tested and found to comply with the limits for a ClassB digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help. To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

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

(1)This device may not cause harmful interference, and

(2)This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should beinstalled and operated with minimum distance 20cm between the radiator and your body

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