Motorcycle Smart Screen

MT55

USER MANUAL

Smart Travel Device

Warm Tips:
Thank you for purchasing. To provide you with a better experience, we kindly suggest reading this manual carefully. If you have any questions during the use or would like to seek more detailed information, please contact our brand support team. VVCAR is dedicated to serving you.

INDEX

Overview 01
1.Product Overview 01
2.Packet Content 01
3.Product Diagram 02
Installation 03
1. Mount the Main Part 03
2. Product Wiring Diagram 03
3. Installation Steps 04
4. Installation Overview 05
Function 06
1. Interface Specification 06
2. Automatic Brightness Adjustment Introduction 07
3. Status Bar Icon Description 07
4. Rain Mode (Lock Touch-screen) 08
5. Apple CarPlay Introduction 09
6. Android Auto Introduction 12
7. Wi-Fi Video Introduction 14
8. DVR Introduction 17
9. Audio Output Introduction 18
10. Video Playback Introduction 19
11. Settings Introduction 20
Product Specifications 23
Common Problems 24
FCC & CE Compliance Statement 26
WEEE Declaration of Conformity & Safety Precautions 27
SERVICE 28

Overview

1. Product Overview:

MT55 is a product that integrates smart streaming, smartphone connectivity (Apple CarPlay, Android Auto, Wi-Fi video), Bluetooth, dash cam, and playback functions for motorcycles. The dash cam features front and rear 1080P cameras, one-touch snapshot, and ultra-low power standby capabilities.

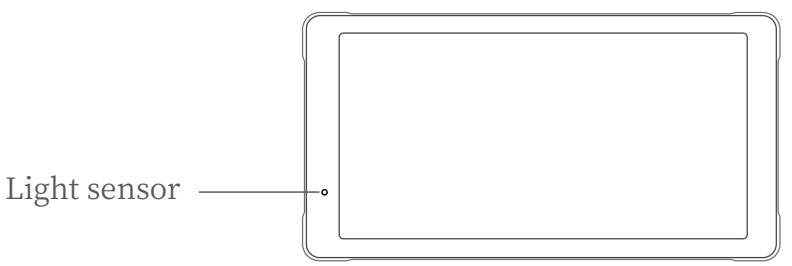
2. Packet Content:

Item	Detail	Instructions	Quantity
Main Part	Host device	5.5 inch high-definition display (960*480) / Touch control / Bluetooth / Wi-Fi / Audio output	1
	Cameras	FHD 1920*1080P 30FPS	2
Drive-by-wire	Wire controller	Take pictures, switch pages, turn on / off the touch screen, answer / hang up the phone, etc	1
	Silicone pad	To adjust wire controller installation	2
	Hexagonal screw	To install the wire controller	2
Holder	Holder	Attach the main part to motorcycle	1
	22mm reducer ring	To adjust bracket mounting	2
	25.4mm reducer ring	To adjust bracket mounting	2
	28mm reducer ring	To adjust bracket mounting	2
Accessories	The power cord	5V / 2.5A current / ACC power supply	1
	64G SD Card	Please choose a branded Micro SD card from regular channels, not lower than CLASS 10 U1; you can change the card by yourself and support up to 256GB	1
	Screwdriver	Cross head for screw installation/ removal of Micro SD card slot plug	1

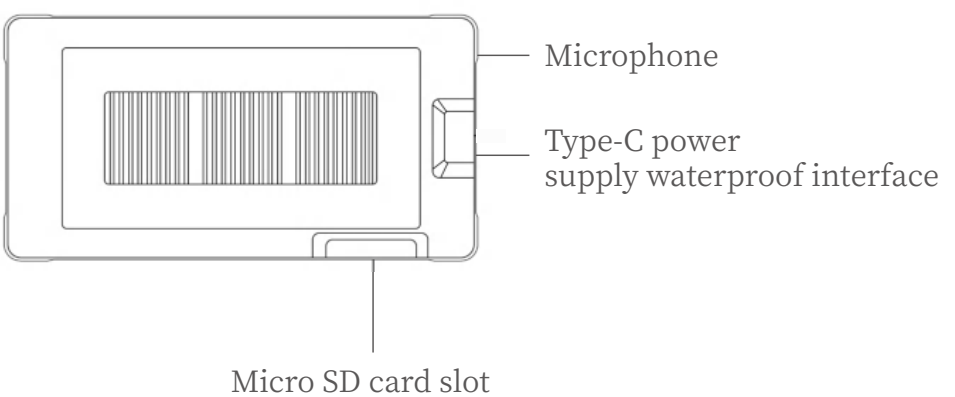
Item	Detail	Instructions	Quantity
Accessories	Film kit	Screen toughening film, wet wipes, cleaning cloth, and dust removal stickers are included for the film protection of the host display screen	1
	Cable tie	Used for product wiring fixing and installation	10
	Hexagonal 7-shape tool	To install/remove 2mm and 3mm inner diameter hex screws	2

3. Product Diagram:

Host Front



Host Back



Installation

1. Mount the Main Part:

(1) This model is only suitable for the installation of fuel motorcycles, except electric motorcycles or electric vehicles.

(2) Take power:

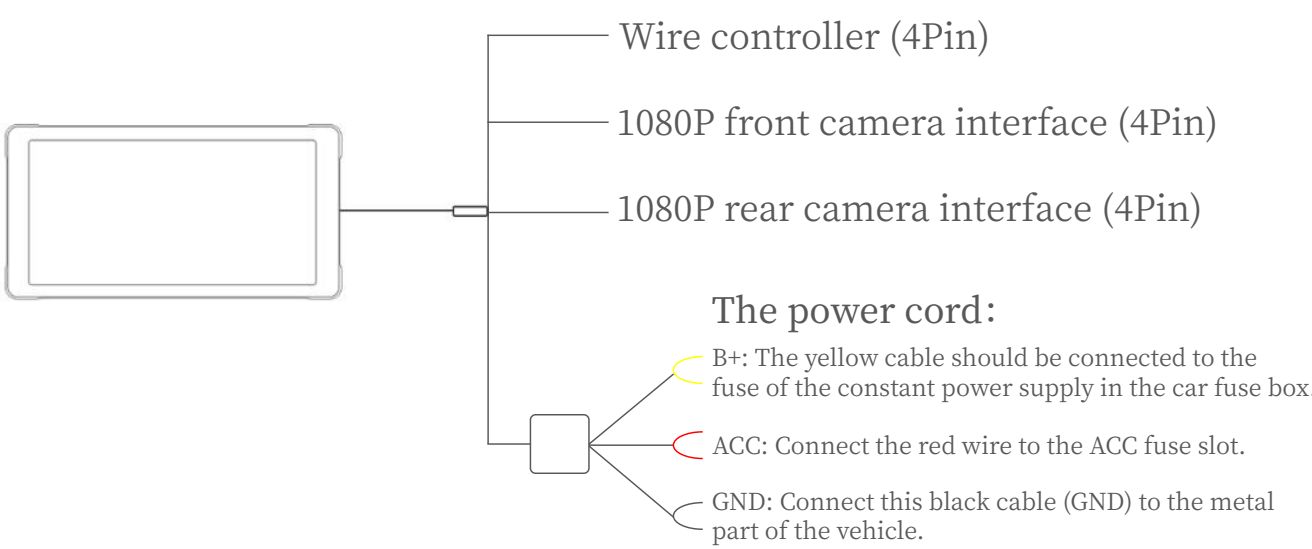
① B+(normal): The yellow power cable is connected to the positive terminal of the battery or the normal circuit. Open the fuse box, and measure the safety or empty safety bit with 12V voltage with a multimeter or a test pen under the ACC state.

② GND: The black cable connects to the negative electrode of the battery or the negative electrode is connected to the iron.

③ ACC: The red wire takes the wire for ACC. Open the safety box, turn off ACC (instrument is not bright) state voltage is 0, and there is 12V safety or empty safety bit in the state of ACC/ start the vehicle, it can be used as ACC power.

Note: Please ensure that all the above three cables are correctly connected before connecting the host to avoid problems.

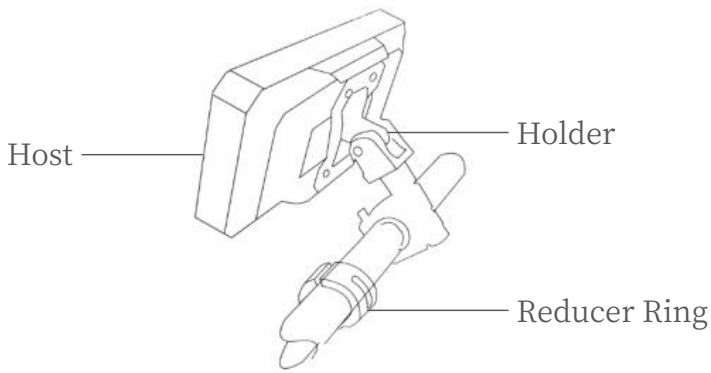
2. Product Wiring Diagram:



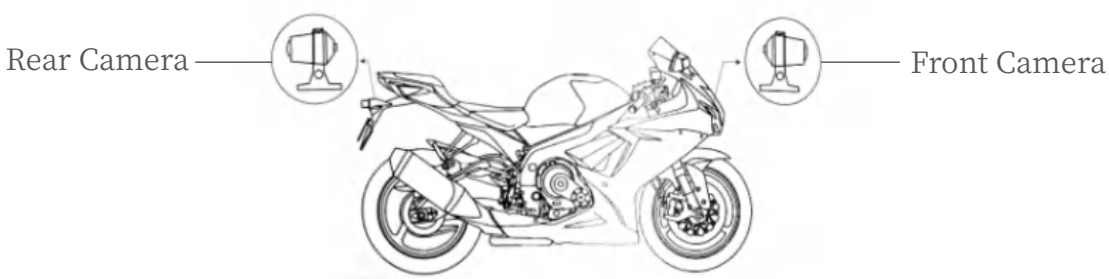
3. Installation Steps:

(1) Host device fixing: Fix the holder and host device together.

(2) Attach the holder to the handlebar of the Motorcycle:



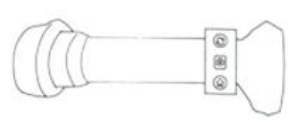
(3) Adjust the lens position to ensure that the lens is centered in the recording frame.



(4) Attach the wire controller to the far right of the left handle for easy thumb operation.

Front view of wire controller

Side view of wire controller



Installation diagram of left handle

(5) Introduction of wire control function

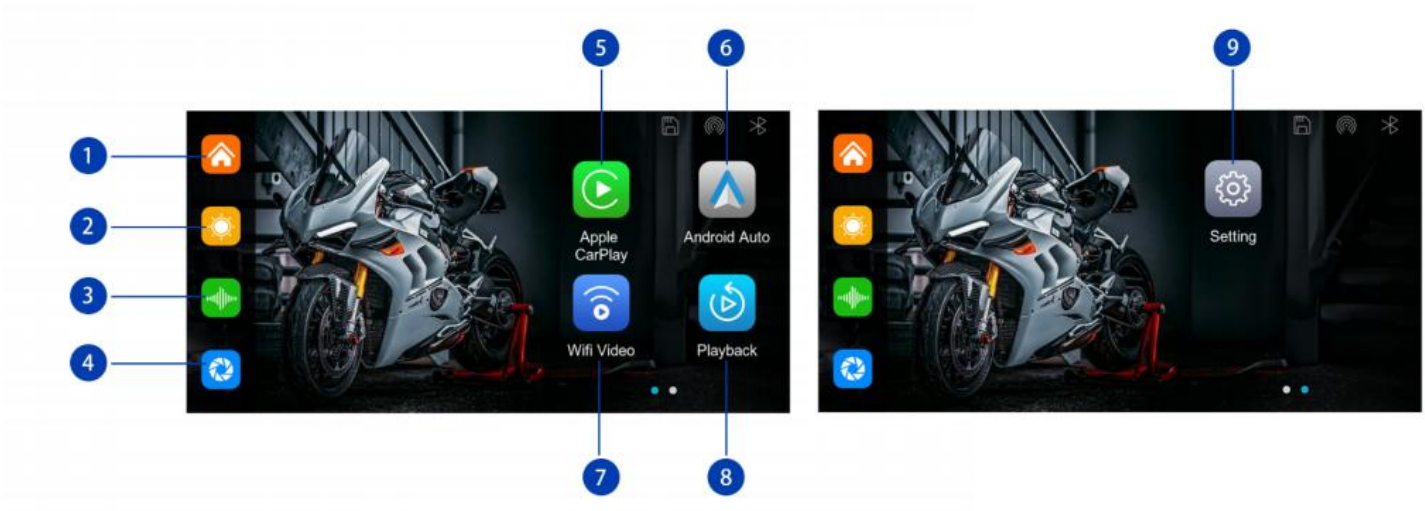
Key	At Work	Incoming Call
	Short press: Backward view/Return to the previous interface Long press for 10 seconds: Power off/on	Short press to answer the call
	Short press: Take a photo Long press for 3 seconds: Lock a video	Short press to end the call
	Short press: Return to Home Page / Mobile-connected interface switching Long press for 5 seconds: Turn off/on touch screen function	/

Note: Only Apple CarPlay Mode allows Users to use the Wire Controller to hang up and answer calls.

4. Installation Overview:

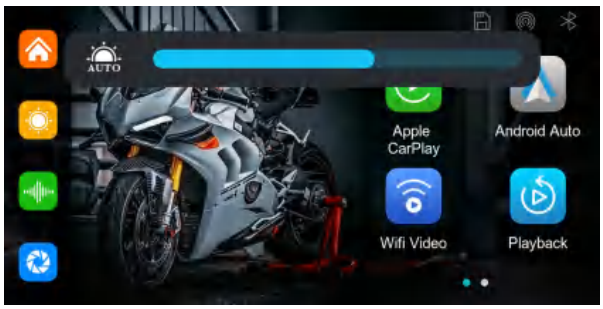
Function

1. Interface Specification:

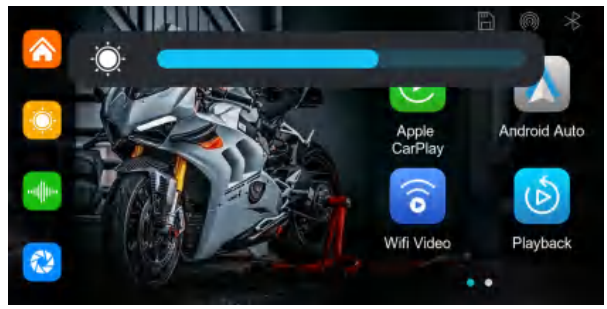


① **Home:** Click to return to the Home Page.
② **Brightness:** Click to adjust the screen brightness（Note that the brightness adjustment can choose between automatic and manual, click the icon [ ] or [ ] to switch, in automatic mode, the brightness bar is not adjustable).
③ **Audio Output:** Click to enter the Audio Output interface, and follow the interface prompts to connect the smartphone to the motorcycle's Bluetooth earphone.
④ **DVR:** Click to enter the video recording interface.
⑤ **Apple CarPlay:** Dedicated screen projection interface for iPhones.
⑥ **Android Auto:** Dedicated screen projection interface for Android phones.
⑦ **Wi-Fi Video:** Click to enter smartphone Wi-Fi connection mode, scan and download the app for viewing and recording videos on your smartphone.
⑧ **Video playback:** Click to view recorded videos/captured images/locked videos.
⑨ **Settings:** Click to enter the function settings interface.

2. Automatic brightness adjustment introduction:



Automatic brightness adjustment mode



Manual brightness adjustment mode

A built-in light sensor on the lower left side of the machine automatically recognizes the brightness of the surroundings. It adjusts the brightness of the host's screen for improved comfort. It is not possible to adjust the brightness manually in auto-brightness mode.

Click the [ ] icon on the left navigation bar of the Home Page to enter the brightness adjustment mode. [ ] means the host device is in automatic brightness adjustment mode, click [ ] to turn off the automatic brightness adjustment mode.

[ ] means the host device is in manual brightness adjustment mode. Click [ ] to turn off the manual brightness adjustment mode.

3. Status Bar Icon Description:

The icons here only indicate the working status display of the host device related functions.

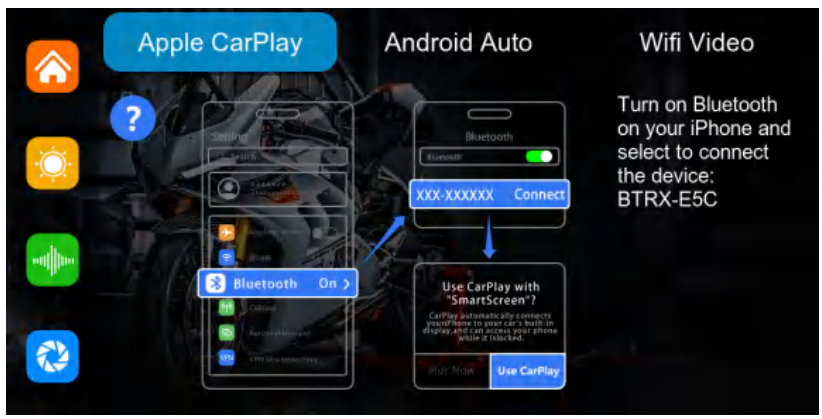
Icon	Instructions
	Indicates that the recording is in progress
	Indicates that Bluetooth is turned on
	Indicates that Bluetooth is connected
	Indicates that the host's Wi-Fi is turned on
	Indicates being in Apple CarPlay screen projection mode
	Indicates being in Android Auto screen projection mode
	Indicates that the Micro SD card has been inserted and recognized by the host
	Indicates that the Micro SD card has not been inserted or is not recognized by the host
	Indicates that the touch control function has been turned off

4. Rain Mode (Lock Touch-screen):

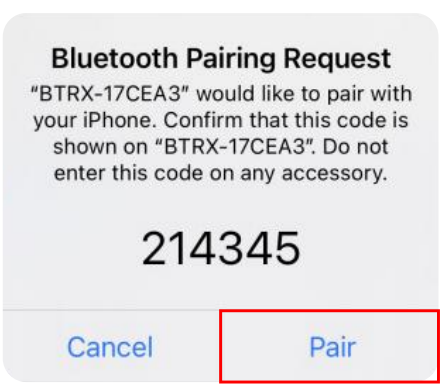
To prevent the screen from being accidentally touched by raindrops on a rainy day, you can long press the third button [ ] of the Wire Controller for 5 seconds to turn on the rain mode. When this mode is turned on, the screen touch will be turned off and can be unlocked by long pressing the third button [ ] of the Wire Controller again for 5 seconds.

5. Apple CarPlay Introduction:

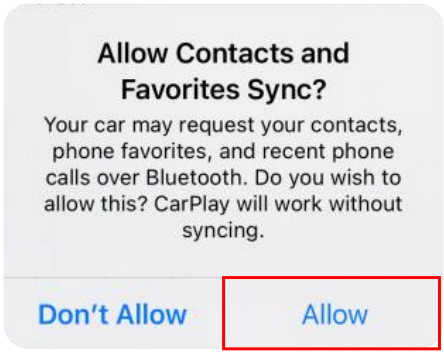
(1) MT55 supports Apple CarPlay, please follow the instructions on the host screen to connect your iPhone. After the first successful connection of Apple CarPlay, the host will automatically connect to the iPhone every time it starts, no need to set up again.



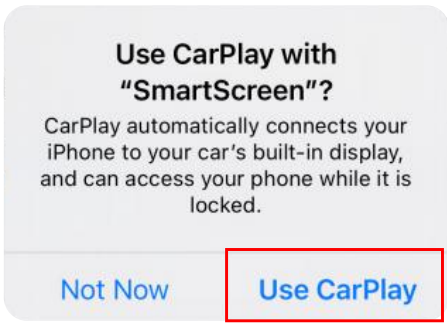
① Click on the [ ] icon on the Home Page to enter the Apple CarPlay option and confirm your selection.
② Turn on the Wi-Fi and Bluetooth of your iPhone, select the Bluetooth named BTRX-**** (when searching for the first time, it will be displayed in "Other Devices", you can see it by scrolling down; please select "Pair" during the connection process). After the Bluetooth connection is successful, the host will automatically switch to the Apple CarPlay display interface.



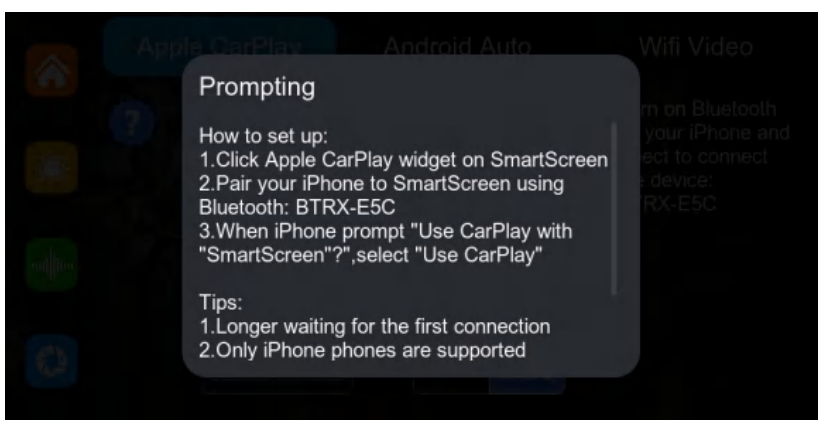
③ The iPhone pops up the Contacts and Favorites Sync information. Choose according to your needs. Choose “Allow”, the Contacts and Favorites will be synchronized to the product. Choose “Don’t Allow”, incoming calls will be displayed as phone numbers instead of contact list names.



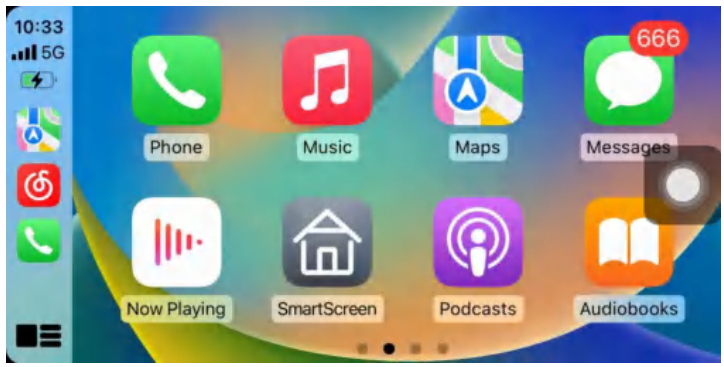
④ When connecting to CarPlay for the first time, the iPhone will pop up authorizing the device "SmartScreen" to use CarPlay. Please select "Use CarPlay", otherwise the device's CarPlay connection will not be successful.

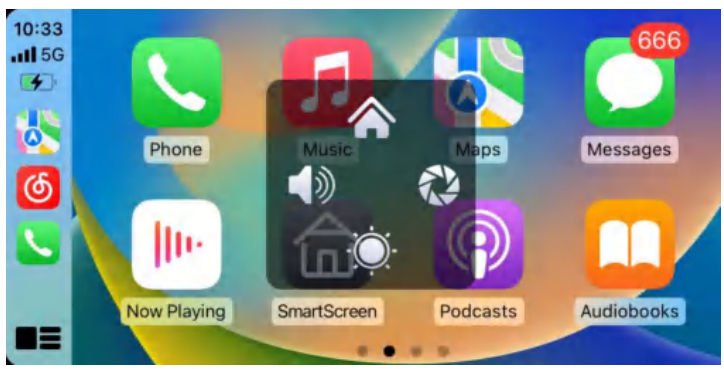


⑤ Click the Details icon [ ] for detailed connection steps and connection FAQs.



⑥ Click Assistive Touch [ ] to display the shortcut menu: [Back to Home], [DVR], [Audio Output], [Brightness Adjustment].



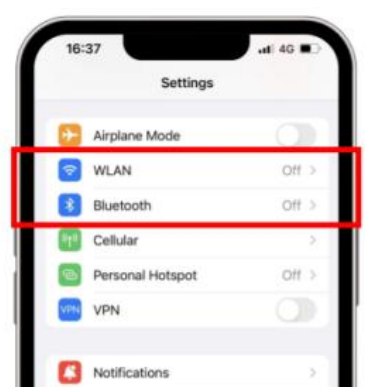


Note:

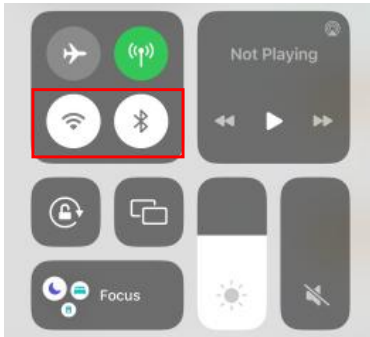
① Apple CarPlay only supports iPhones (iPhone requirement is iPhone5 and above, IOS system version requirement is IOS13 and above).

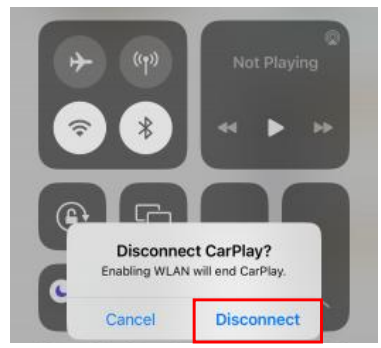
② When the host is powered on, it will try to connect to the last connected iPhone device automatically. If you use a new iPhone to connect to the host, you need to turn off the Wi-Fi and Bluetooth of the relevant iPhone that was last connected to the host, or the new iPhone will not be connected successfully.

③ If you need to disconnect Apple CarPlay, please turn off both Wi-Fi and Bluetooth on your iPhone to disconnect. Turning off Wi-Fi only or Bluetooth only, the iPhone will keep trying to reconnect to the host.



Disconnect it through the shortcut icon in the iPhone control center, you need to turn off Bluetooth, click on the Wi-Fi icon again, and select "Disconnect" in the iPhone pops up to truly disconnect.





(2) How to add/delete APPs in the projection screen when the host is successfully connected to the iPhone (commonly used apps cannot be deleted, those with a delete icon can be deleted):

① Open the iPhone Settings, click "General";

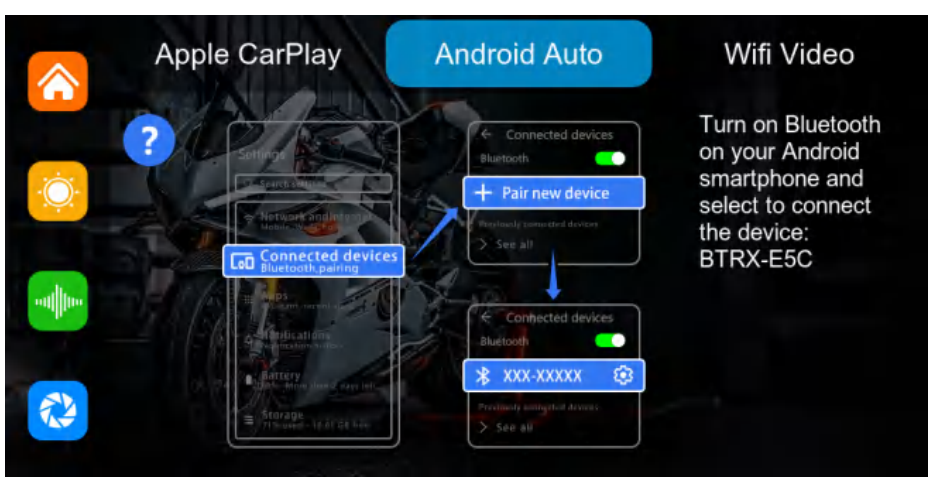
② Click "CarPlay" - "Smart Screen";

③ Click "Customize" and the apps that have already been displayed can be edited, deleted, and added.

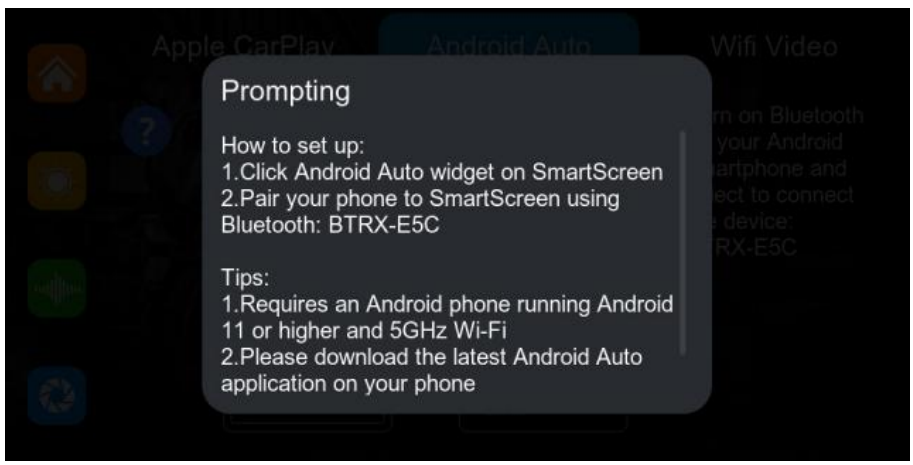
6. Android Auto Introduction:

MT55 supports Android Auto, please follow the instructions on the host screen to connect your Android phone. After the first successful connection of Android Auto,

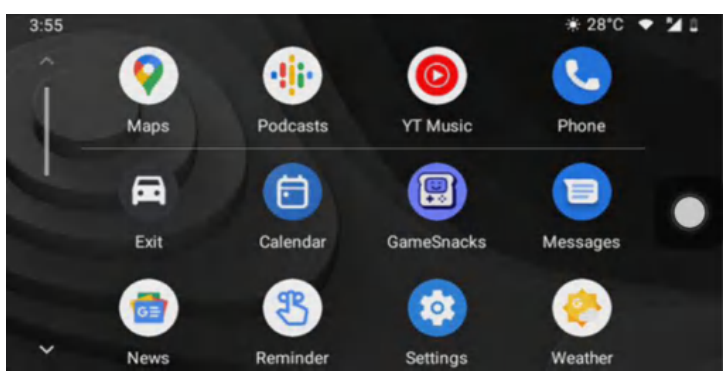
the host will automatically connect to the phone every time it starts, no need to set up again.

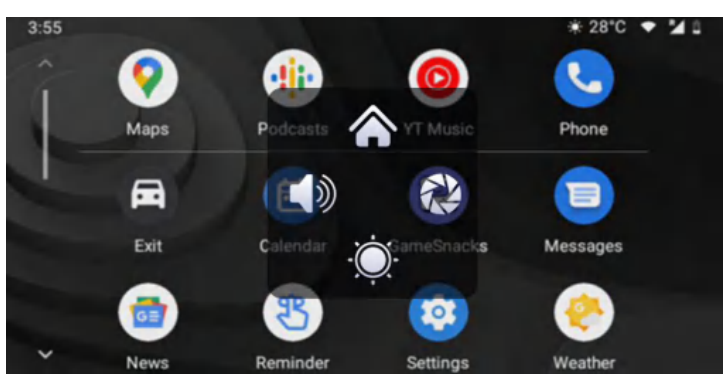


(1) Click on the [ ] icon on the Home Page to enter the Android Auto option and confirm your selection.
(2) Turn on the Wi-Fi and Bluetooth of your Android phone, select the Bluetooth named BTRX-**** (when searching for the first time, it will be displayed in "Other Devices", you can see it by scrolling down; please select "Pair" during the connection process). After the Bluetooth connection is successful, the host will automatically switch to the Android Auto display interface.
(3) Click the Details icon [ ] for detailed connection steps and connection FAQs.



(4) Click Assistive Touch [ ] to display the shortcut menu: [Back to Home], [DVR], [Audio Output], [Brightness Adjustment].



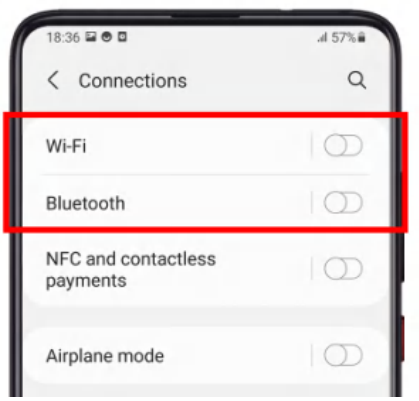


Note:

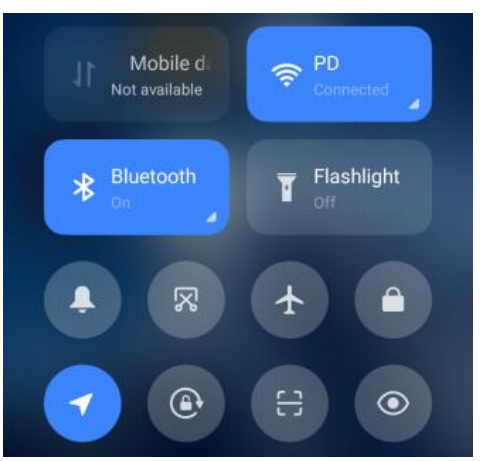
① Android Auto only supports Android phones.

② When the host is powered on, it will try to connect to the last connected Android phone device automatically. If you use a new Android phone to connect to the host, you need to turn off the Wi-Fi and Bluetooth of the relevant Android phone that was last connected to the host, or the new Android phone will not be connected successfully.

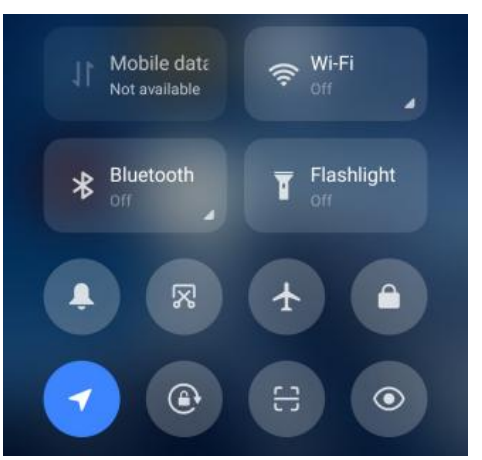
③ If you need to disconnect Android Auto, please turn off both Wi-Fi and Bluetooth on your Android phone to disconnect. Turning off Wi-Fi only or Bluetooth only, the Android phone will keep trying to reconnect to the host.



Disconnect it through the shortcut icon in the phone control center, You need to turn off Bluetooth and Wi-Fi icons together.



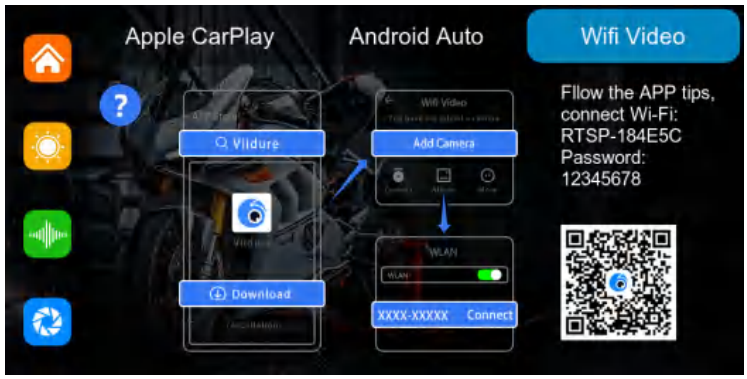
Connected



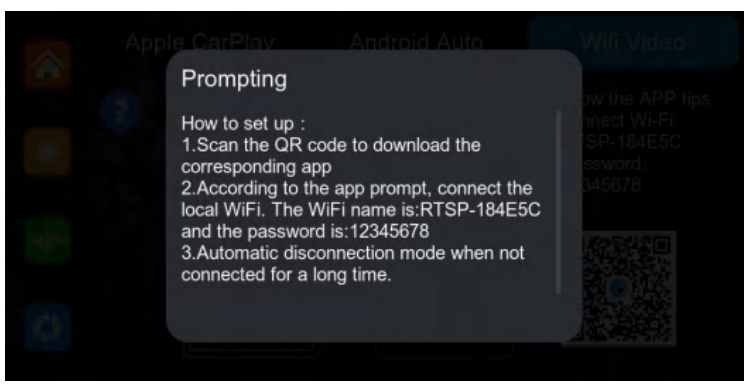
Disconnected

7. Wi-Fi Video Introduction:

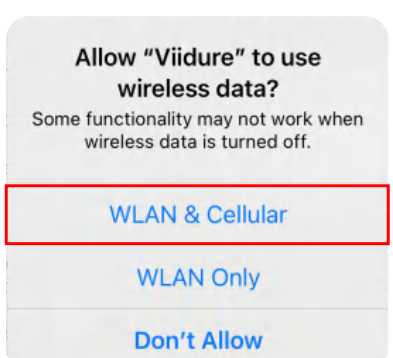
(1) MT55 supports Wi-Fi Video, please follow the instructions on the host screen to connect your phone.

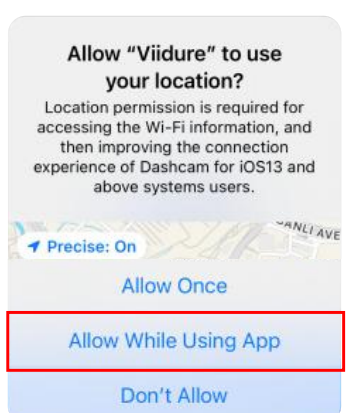


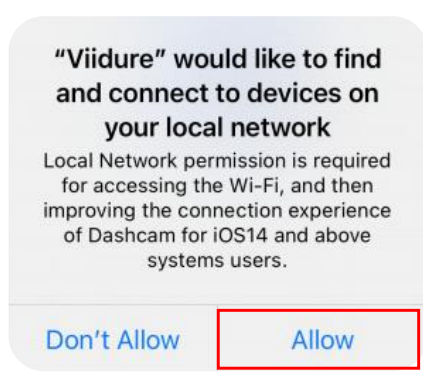
(2) Click on the [ ] icon on the Home Page to enter the Wi-Fi Video option and confirm your selection.
(3) Please scan the QR code on the host screen to download the APP.
(4) After downloading, open the APP and follow the prompts to connect Wi-Fi. Wi-Fi name: RTSP-******, password as shown on the host.
(5) Click the Details icon [ ] for detailed connection steps and connection FAQs.



(6) When connecting APP, it needs to obtain the relevant permissions of your smartphone to ensure the normal operation of the function, such as location, local network, etc. Please select “Allow”, otherwise you will not be able to connect successfully. If you have chosen “not allow”, you need to uninstall the APP and re-download it, reconnect to and then choose “Allow” the authorization.

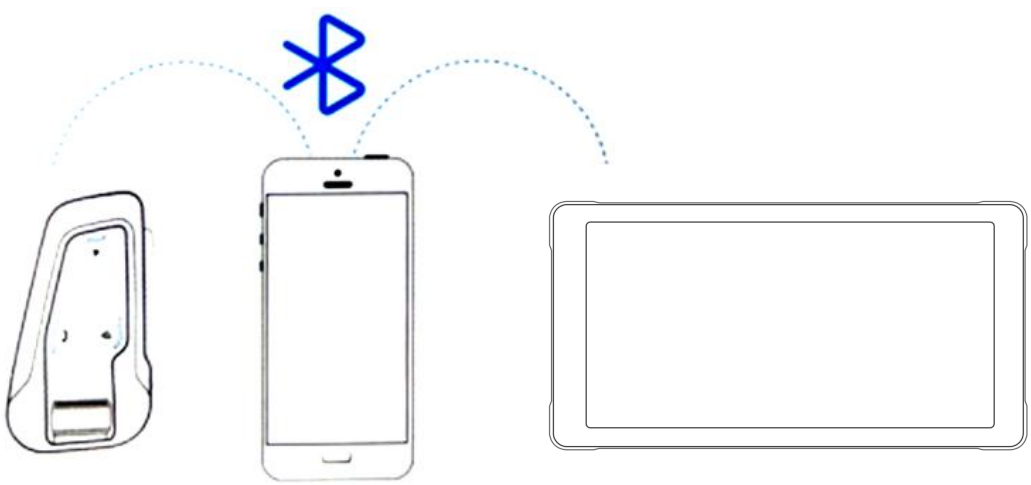






(7) After a successful connection, the host will enter the recording interface, at this time you cannot perform any operation on the host. You can watch/download the recorded video, take photos, or set various parameters on your cell phone via APP.
(8) If you need to disconnect the Wi-Fi video, please turn off the Wi-Fi on your smartphone. Note that there is a delay when disconnecting, please wait for 1-2 minutes before operating the host.

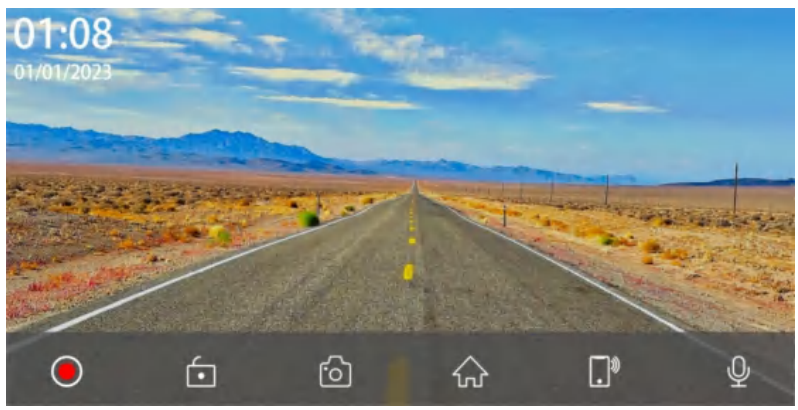
Warm Tips:
In Apple CarPlay and Android Auto mode, Bluetooth will be released immediately after the smartphone screen is projected. The smartphone can still connect to Bluetooth devices such as motorcycle Bluetooth headset.



8. DVR Introduction:

(1) The Home Page will not directly display the recording interface, you need to click on the DVR icon [ ] to enter.

(2) After the Micro SD card is inserted into the host and effectively recognized, the system will automatically enter recording mode.



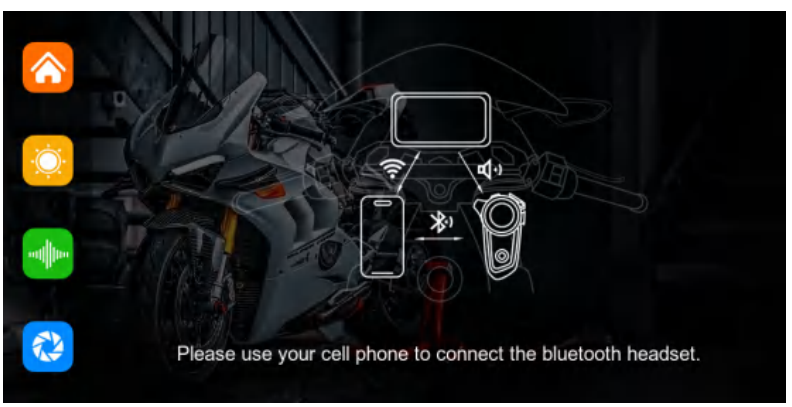
(3) Icon Instructions:

Icon	Instructions
	Indicates that the camera is recording, click to 'stop recording'.
	Click to lock the recorded video and it will not be looped overwritten or deleted.
	Click to take a photo.
	Click to return to the Home Page.
	Click to quickly return to the Mobile-connected interface.
	Turn recording sound on or off.

(4) Lock Video Function Description:
① The number of videos that can be locked depends on the capacity of the Micro SD card. Generally, the number of videos that can be locked to different specifications of Micro SD cards is approximately as follows: 16GB ≈ 20, 32GB ≈ 40, 64GB ≈ 80, 128GB ≈ 160, and 256GB ≈ 320.
② The Micro SD card supports a minimum of 16GB and a maximum of 256GB.
③ If the locked video capacity exceeds the Micro SD capacity, the earliest locked video will be overwritten first. For example,16GB Micro SD card can lock 20 videos, when locking the 21st video, the 21st video will overwrite the first one and the 22nd video will overwrite the second one.

9. Audio Output Introduction:

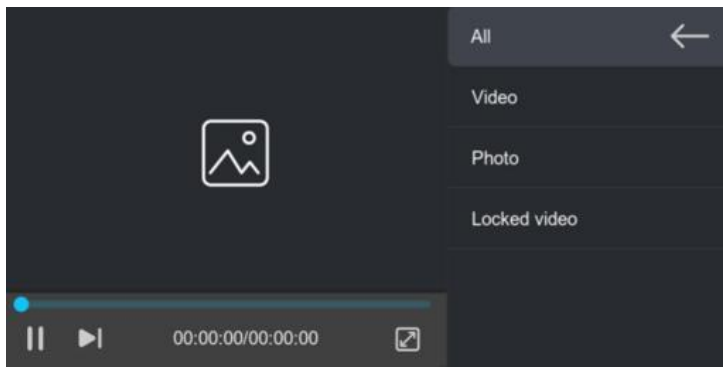
(1) Click on the icon [ ] on the left navigation bar to enter the Audio Output interface.



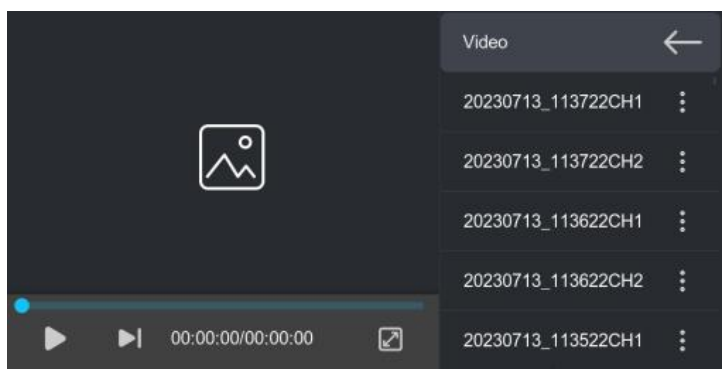
(2) Turn on the smartphone Bluetooth and connect to the motorcycle Bluetooth headset. After a successful connection, all sounds emitted by the MT55 host will be transmitted to the motorcycle Bluetooth headset for playback.
(3) Directly turn off the smartphone's Bluetooth or power off the motorcycle Bluetooth headset to disconnect.
(4) If the sound is abnormal, please disconnect the smartphone from the headset.
(5) To exit the Audio Output interface, click the icon [ ] to return to the Home Page.

10. Video Playback Introduction:

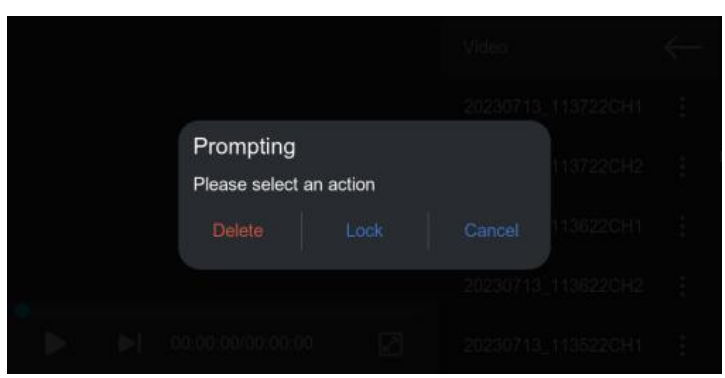
(1) Click the icon [ ] on Home Page to enter the Video Playback interface.



(2) You can select [Video], [Photo], or [Locked Video] folder, after selecting, you can click the select button on the right side of the file to delete, lock or unlock the video.



(3) To delete or lock a video/photo, click the icon [⋮] on the right to select Delete or Lock Video.

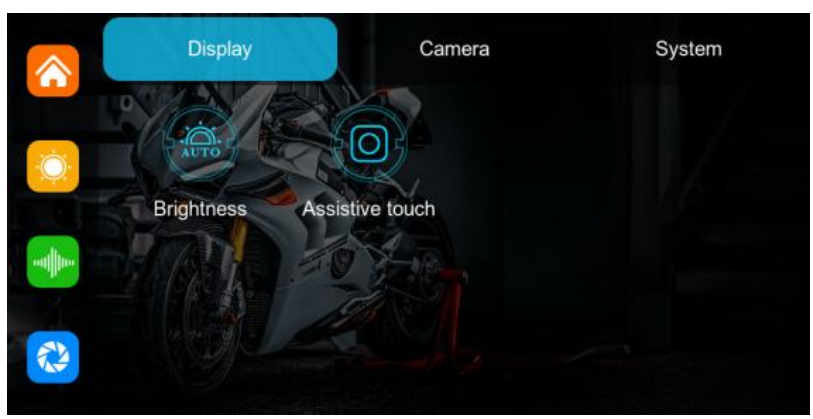


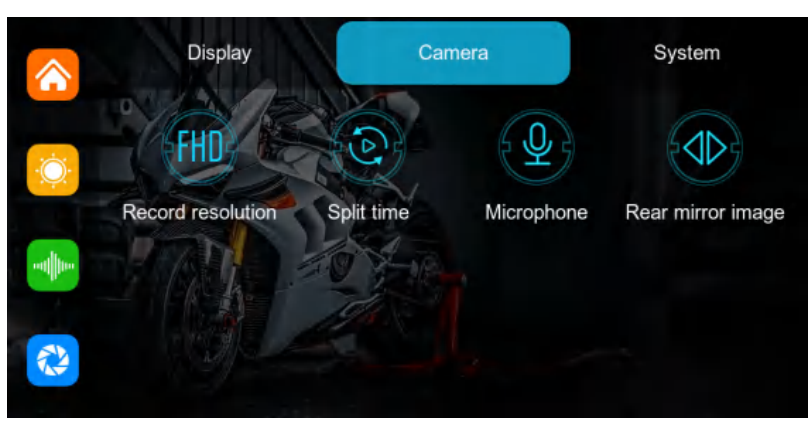
(4) Icon Instructions:

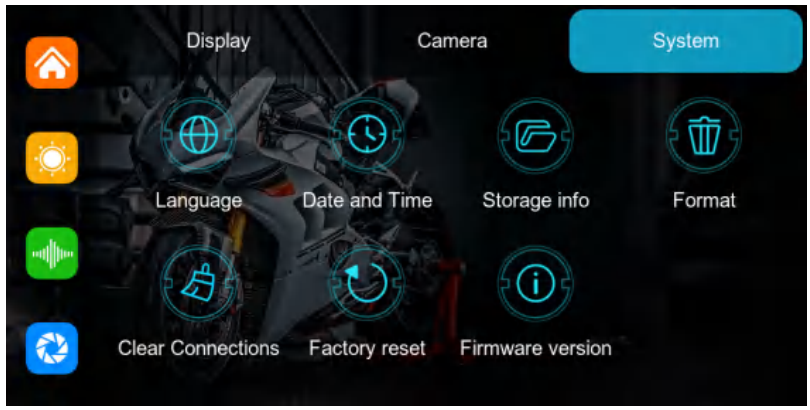
Icon	Instructions
	Click to play or pause the video.
	Click to switch to the next video or photo.
	Click the Full Screen button to play the video in full screen.
	Click to return to the previous interface.

11. Settings Introduction:

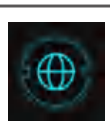
The settings interface is divided into three parts: "Display", "Camera", and "System".







(1) Icon Instructions:

Icon	Instructions
	Click to enter the [Brightness] setting, see the following expression for details.
	Click to enter the [Assistive touch] setting, it's a hover window button in your phone's screen casting mode, you can choose to turn it off or on.
	Click to enter the [Record resolution] setting, 720P/1080P optional.
	Click to enter the [Split time] setting: 1 minute/3 minutes/5 minutes optional. The default is 3 minutes.
	Click to enter the [Microphone] settings, off/on optional.
	Click to enter the [Rear mirror image] settings, off/on optional. This feature supports left and right mirroring of the rear camera image, which helps users install the camera more conveniently and flexibly.
	Click to enter the [Language] settings, multiple languages available.
	Click to enter the [Date and Time] setting: year / month / day / hour / minute / time format can be set individually.
	Click to view the Micro SD card [Storage info] status: The former indicates the remaining available capacity and the latter indicates the total capacity.

Icon	Instructions
	Click to enter the [Format] setting: This option formats the Micro SD card information. It is recommended to format when first time inserted. Manually format the Micro SD card on a regular basis to extend the life of the Micro SD card.
	Click to enter the [Clear Connections] setting, and confirm to clear the connection history (including Bluetooth, Wi-Fi, and screen projection history) with the smartphone from the host.
	Click to enter the [Factory reset] settings: After selecting 'Confirm', the system will restore all settings to their original state.
	Click to enter the [Firmware Version] interface, where users can view the current software version number of the host.

(2) [Brightness] setting:

You can set the Auto-brightness mode on or off, and you can also set the Auto-brightness minimum and maximum brightness limits.

Drag the left white dot button to set the minimum brightness limit, and drag the right white dot button to set the maximum brightness limit. The setting will be saved automatically when it is completed, and you can exit the setting by clicking the [Close] button.

Product Specifications

Icon	Instructions
Screen	5.5-inch high-definition IPS display, ratio 18:9, high brightness 730cd/m^2, resolution 960*480
CPU Processor	High-performance SOC (T33)
RAM	2Gbits
System	Linux
Operating Mode	Touch control, tap the icon to enter the corresponding option, swipe left or right to switch the page display
User Interface	Icon Operation
Upgrade	via Micro SD card
Mobile-Connection	Support Apple CarPlay/Android Auto/Wi-Fi Video
Wi-Fi Frequency	5G
Power Input	Support 5V ACC hard wire kit, support wide voltage range 12-24V
Working Current	5V, 2.5A
ACC Switchboard	Support ACC detection, ACC ON power on/off, standby current less than 1.3mA
Power Interface	Waterproof Type-C
Audio Transmission	BT transmission
Microphone	Built-in waterproof microphone, support microphone recording, support two independent ADC channels, support echo and noise cancellation; -38db±2db
Camera	Both front/rear: Sony IMX307 LQR, 1080P
Resolution	Both front/rear: 1920*1080P, 30FPS
Camera Angle	141°
Compression Format	H.264
Video format	TS steaming
Video Play	Via host or mobile app, can download video files to smartphone
Storage	Stored in micro SD card, specification requirement not less than CLASS 10 U1, maximum support 256GB

Icon	Instructions
Wire Controller Key	Switch button, Photo button, HOME button
Language	Chinese/Traditional Chinese/English/Russian/Spanish/French/German/Japanese/Korean/Italian/Portuguese
Operating Temperature	-4~+158°F/-20~+70°C
Storage Temperature	-22~+176°F/-30~+80°C
BT Version	BT V5.0

Common Problems

NO.	Problems	Solutions
1	Unable to start	(1) Check the power cord for damage or aging. (2) Check whether the power supply PIN connector is inserted correctly and make sure the nut is tightened. (3) Check whether the three wires B+, ACC and GND are connected correctly, and whether there is any disconnection or poor contact.
2	No touch phenomenon	(1) Touching is useless when the device is turned on, please wait until the startup program has finished running before operating. (2) Please do not use sharp objects, so as not to damage the screen. (3) Please make sure whether the touch screen function has been closed by wire controller, if it has, it can be unlocked by long pressing the third button of the wire controller for 5 seconds. (4) In Wi-Fi Video mode, after the smartphone is successfully connected to the host, the host will enter the video recording interface, and you cannot perform any operations on the host at this time. You can watch/download recorded videos, take photos, or set various parameters of the host through the app on your smartphone. (5) There is a delay when disconnecting Wi-Fi Video mode, and the host will not be able to perform any operations. Please wait for 1-2 minutes before operating the host.

NO.	Problems	Solutions
3	No image from camera	(1) Check whether the PIN connector of the camera is inserted correctly and tightened; (2) Check whether the camera and cable are original ones (non-original ones are not supported).
4	High-temperature lag phenomenon of the Host	Avoid prolonged exposure to direct sunlight. The host will enter an automatic protection program when the temperature is too high. Suspend the work until the temperature of the host returns to the workable zone.
5	Apple CarPlay cannot connect	(1) The first connection takes a long time, expect 1-3 minutes. (2) Only iPhones can use CarPlay function. (3) The iPhone is required to be iphone5 and above, and IOS system version is required to be IOS13 and above. (4) Check whether the Wi-Fi and Bluetooth functions of the iPhone are normal and open. (5) Enter the Settings-General-CarPlay interface of the iPhone, delete all the records in this interface and reconnect. (6) Restart the iPhone and MT55 device and reconnect.
6	Android Auto cannot connect	(1) The first connection takes a long time, expect 1-3 minutes. (2) Only Android phones can use Android Auto function. (3) Update Auto and relevant Apps on your Android phone to the latest version. (4) Do not enable VPN on your Android phone. (5) Check whether the Wi-Fi and Bluetooth functions of the Android phone are normal and turned on. (6) Restart the Android phone and MT55 device and reconnect.
7	Wi-Fi Video cannot connect	(1) Update the relevant Apps on your smartphone to the latest version. (2) Check whether the Micro SD card in the host is inserted and recognized by the host successfully. (3) Check whether the host mode has been switched to Wi-Fi Video mode.
8	Service Support	If the above FAQs fail to solve your problem, you can scan the following QR code to contact the service support team. EMAIL WhatsAPP

FCC & CE Compliance Statement

◆This device complies with Part CE-RED of the CE Rules.
◆This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
◆Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
◆NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses 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.

WEEE Declaration of Conformity & Safety Precautions

◆This WEEE logo means that this product must not be discarded as household waste, and should be delivered to an app collection facility for recycling. Proper disposal and recycling help protect natural resources, human health, and the environment. For more information on the disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

To guarantee the service life of the product, please refer to the instructions as follows:

◆Please keep away from high temperature, flammable, high humidity, corrosive environments, etc.

◆Do not dissemble the product or subject the product to shock, squeeze and fire.

◆Do not disassemble the product. Do not replace, or mutilate the product components.

◆Use the accessories that come with the product.

◆The product has IP67-grade dust and water resistance, which does not mean it has a complete waterproof function. Please do not immerse the product in water or use a high-pressure water gun for cleaning.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user'sauthority to operate the equipment.
The device has been evaluated to meet general RF exposure requirement.
To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

Service

STOP EXPERIENCING PROBLEMS?

- How to use?
- Can not turn on?
- Missing items?
- Damaged or detective?

Please contact us before returning the item,
WE WILL HELP YOU RESOLVE ANY ISSUES ASAP.

CUSTOMER SERVICE

7*24Hours

E-mail Vvcar_us01@163.com

MADE IN CHINA

This product is subject to constant updates without notice.
For the latest product information, please contact us.