

10.2" 1080P Carplay Monitor

BT12



User Manual

Please read all instructions carefully before using, and keep the manual for future reference.

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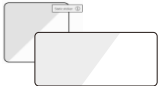
The Haloview BT12 vehicle observation carplay monitor carry two 1080P cameras installed inside/outside of the vehicle to capture images around the vehicle while navigating and music listening. It's a combination of carplay, dashcam and rear view real-time observation. With this system, drivers can intuitively see the obstacles and pedestrians around the vehicle, which effectively reducing the occurrence of accidents such as scratches and collisions. The video recording function it has can record the driving picture as valid evidence.

1. Functions of each part



2. Package contents

Item	Picture	Description	Quantity
Carplay Monitor		10.2"(1600*600) carplay monitor support 2 channels of cameras	1
Cameras		Wired 1080P Dashcam Wireless 1080P Camera	2
Smart Box		BMW connector x 1 5V output port x 2	1
Camera Extension Cable		3.5m x 1 1.5m x 1	2

Mount		Base	1
TF Card		64G C10/U1	1
Suction Mount			1
1. Static Sticker for Dashcam 2. Anti-glare film for display			2

3. Specifications

Monitor (BT-M12)

	Introduction	Function
	Language	English/Simplified Chinese/Traditional Chinese/Japanese/Korean/French/Italian/Spanish, etc
	Interface	Graphic MENU
	Operation	Touch screen/Push button Short press to standby the screen. Long press to turn ON/OFF
Video Input	Video Input	2 Channels 1080P Cameras
	Recording	Default boot recording, no missing seconds, automatic recording after 15 seconds of no operation
	Recording format	TS, video saved separately, dashcam recorded file is 2.5K/1080P/720P optional, rear view cameras recorded file default 1080P.

Display	Real-time display	10.2" 1600*600MIPI
	Display Mode	Single channel display and split display
	Playback	Local playback can be viewed at any time, or select the playback button to urgent-record, lock or delete files, support real-time viewing and playback via mobile phones.
	Screen Saver	1 minute/3 minutes/5 minutes/off
Storage	SD Card	CLASS10 U1 or above, minimum 64GB, maximum support 256GB
Wireless Connection	WIFI	Support IOS carplay/Android auto Supports RoadCam wireless connection
	Bluetooth	Support bluetooth music, bluetooth calling
	FM	Support FM range 87.5-108.0MHz, the minimum unit is 0.1MHz
Audio	Microphone	Support audio recording. Audio recording can be set ON/OFF.
	Voice Control	Temporarily only English is supported. A variety of voice control commands. Note: The voice control may be affected in noisy environment.
Power	Power input	The working voltage is DC11-18V, with vehicle-grade surge, overload, overvoltage, undervoltage, short circuit and other power protection circuits, suitable for various vehicles.
Others	Working Temperature	-20~65°C
	video duration	Video recording time can be set
	Mirror/Flip	Split display can respectively set mirror and flip
	license plate settings	Supported
	Time Setting	Supported
	Brightness Setting	Supported
	Volume Adjusment	Supported

Smart Box (BTR100)

Output Pixels	1920 ×1080
Operation Frequency	2400-2483MHz
Transmission Distance (barrier free)	300m (984ft)
Transmission Power	18dBm
Video Codec	H.265
Spread Spectrum	DSSS
Latency	120ms
RF Bit Rate	12Mbps
Power Supply	DC11~18V

Dashcam (CA617)

Image Device	1/2.9" CMOS
TV System	25fps/30fps
Effective Pixels	1920x1080
Pixel Size	2.8umx2.8um
Video Output	10bits MIPI
Scanning System	Progressive Scanning
Sync. System	Internal
Gamma Consumption	0.45
AGC	Auto
White Balance	Auto
BLC	Auto
Electronic Shutter	Electronic Rolling Shutter

Viewing Angle	140°
Audio	No
LED	No
Power Supply	DC10~32V
Waterproof rating	IP69K
Minimum Illumination	0.5Lux
Operating Temperature	-20°C ~ 70°C, RH95%MAX.
Storage Temperature	-30°C ~ 80°C, RH95%MAX.

Wireless Rear View Camera (BTC128)

Image Device	1/2.9" CMOS
TV System	25fps/30fps
Effective Pixels	1920×1080
Pixel Size	2.8um×2.8um
Video Output	8bits YUV
Scanning System	Progressive Scanning
Sync. System	Internal
Gamma Consumption	0.45
AGC	Auto
White Balance	Auto
BLC	Auto
Electronic Shutter	Electronic Rolling Shutter
Operation Frequency	2400-2483MHz
Transmission Distance (barrier free)	300m (984ft)

Transmission Power	18dBm
Video Codec	H.265
Spread Spectrum	DSSS
Latency	120ms
RF Bit Rate	12Mbps
Minimum Illumination	0Lux
Power Supply	DC10~32V
Night vision distance	8~10m (26-32ft)
Waterproof rating	IP69K
Viewing Angle	120°
Audio	Yes
LED	6 x LED
Operating Temperature	-20°C ~ 70°C, RH95%MAX.
Transmission Distance (barrier free)	-30°C ~ 80°C, RH95%MAX.

4. TF card requirements

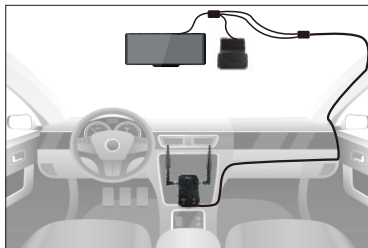
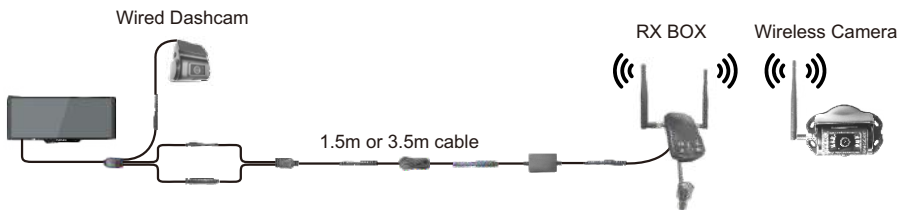
The quality of the SD card has a great influence on the stability of the video recording. In order to record the video safely, please choose the best SD card such as SanDisk, Kingston, Toshiba and Samsung. The speed must be at least Class10/ U1.



5. Installation

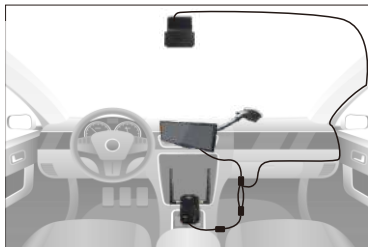
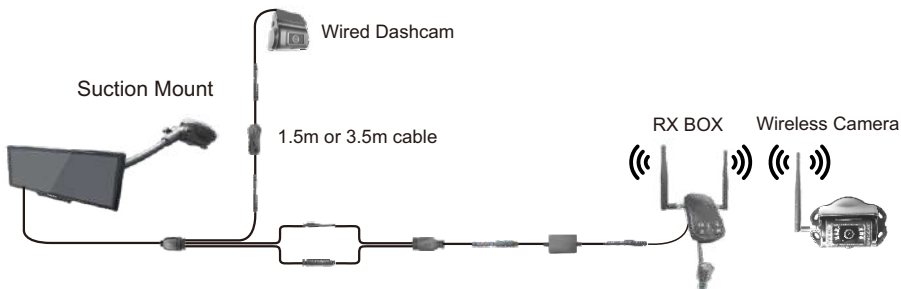
Installation Method 1:

Mount Carplay Monitor on Rearview Mirror



Installation Method 2:

Mount Carplay Monitor on Front Windshield by Provided Suction Bracket



Dashcam installation

1. Please wipe the front windshield with cleaning paper before installation.
2. Paste the provided static sticker on windshield.



3. Tear off the film of 3M glue, and then stick it on the static sticker



4. Turn the camera up and down to adjust to the appropriate angle.



Reaview Camera installation



If signal strength of the position that you planned to install a camera is under 2 bars, please change to another position, or mount the camera higher to make sure the antenna highest of the top without being blocked. Please refer to below pictures:



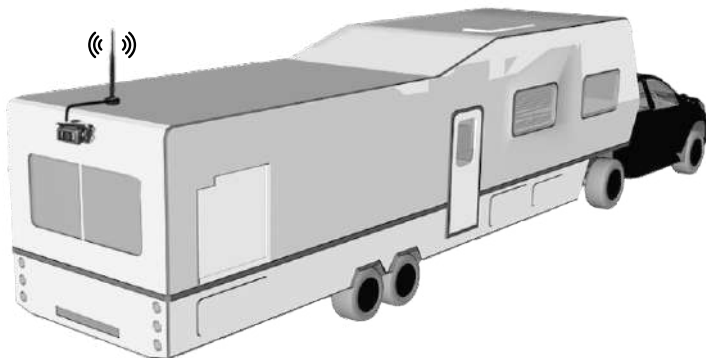
Installation Position 1: Mount the camera higher than your vehicle's roof, keeping the antenna vertical.

Installation Position 2: Mount the camera lower but as close as possible to vehicle's roof, and move the antenna outward **15-30 degree**. The antennas proximity to any metal surfaces on the vehicle may affect signal strength.

Special Notice

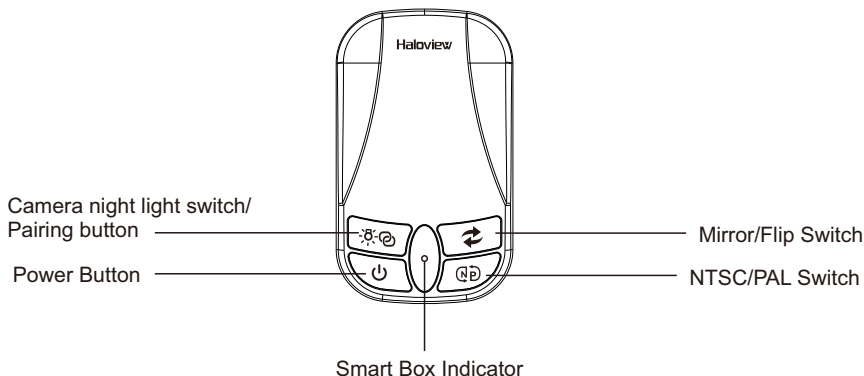
After position adjustment, you can start installation if your signal strength is still above 2 bars.

Image freezing may occur when the vehicle is 42-65ft long and the antenna is mounted in a poor location (the antenna is not placed on the roof of the vehicle or there is obstruction around the antenna). In this case, it is recommended to purchase the Haloview 0.6m antenna extension cable and place it on the roof without any obstacles.




6. Smart box



1. Functions of each part

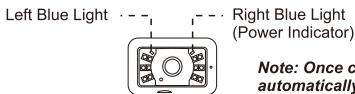


2. Indicator Status



Short press to turn ON/OFF camera night light. The icon  shown on the left of the screen.

- When night light turned ON, display shows “”, camera left blue light ON.
- When night light turned OFF, display shows “”, camera left blue light OFF.



Note: Once camera night light turned ON, it will automatically light up when there is no sunlight.

Press and hold the button for 3 seconds to enter pairing. Please press the camera pair button to complete pairing before the 50 second countdown ends. Smart box indicator blink during pairing countdown.



Press Power button to turn ON/OFF the smart box. Indicator turns to green when operating. Indicator turns to red when standby.

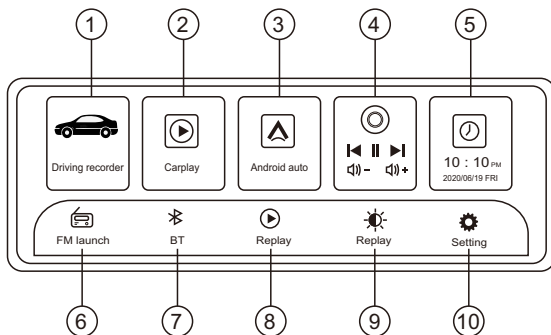


Short press Mirror/Flip button to switch image among mirror/normal/flip/mirror-flip.



Press and hold NTSC/PAL button to switch image format between 1080P NTSC and 1080P PAL.

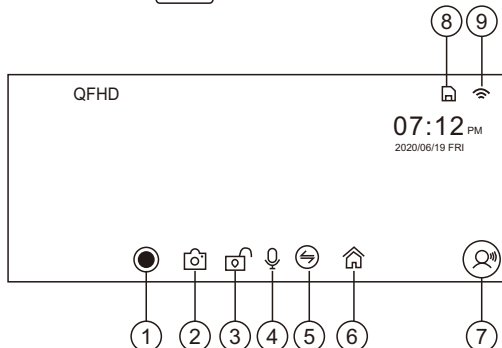
7. Menu



Insert the SD card, after formatting, the system will automatically enter recording mode

- ① Driving recorder
- ② Carplay
- ③ Android auto (#)
- ④ Volume settings: volume +, volume -, previous song, next song, play, pause
- ⑤ Time setting: you can set the time manually, or automatically synchronize the time after the mobile phone is connected.
- ⑥ FM launch: FM frequency range 87.5--108MHz.
- ⑦ Bluetooth settings
- ⑧ Replay: Driving video playback, ordinary video, emergency video, photo view, delete or lock video, etc.
- ⑨ Brightness adjustment
- ⑩ Settings

A. Touch the Driving Recorder  to enter dashcam real-time stream



- ① Turn on/off recording
- ② Snapshot
- ③ Lock the video file to avoid being overwritten during loop recording
- ④ Turn on/off the recording sound
- ⑤ Switch channel of cameras
- ⑥ Return to the homepage
- ⑦ Voice command list
- ⑧ SD card status
- ⑨ Wifi status

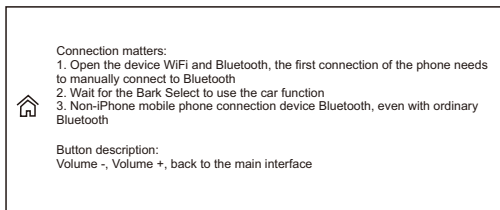
B. Touch Carplay



or



Android auto to start smart phone screen projection



8. Carplay/Android auto connection tutorial

1.Carplay: For the first time using an iPhone to connect to the carplay monitor, please turn on the Bluetooth of both phone and the carplay monitor to establish connection. The Bluetooth will be automatically disconnected once authentication done, and the screen of the iPhone will be projected to the Carplay. After the first connection, it will automatically connect in the future (just turn on the carplay monitor bluetooth without any other operation).

2.Android auto: For the first time using an Android phone to connect to the carplay monitor, please turn on the Bluetooth of both phone and the carplay monitor to establish connection. The Bluetooth will be automatically disconnected once authentication done, and the screen of the Android phone will be projected to the Carplay. After the first connection, it will automatically connect in the future (just turn on the carplay monitor bluetooth without any other operation).

Q: How to disconnect Carplay/Android auto?

A: Just turn off the wifi of the phone.

Q: Manually disconnect Carplay/Android auto, how to connect again?

A: Turn on the mobile phone bluetooth and connect again.

Q: How to connect Carplay/Android auto after the device is powered off and restarted?


A: After the first connection, the phone will automatically connect to the carplay monitor if the wifi and bluetooth is turned on.

Q: How to use the APP RoadCam when connected to Carplay?

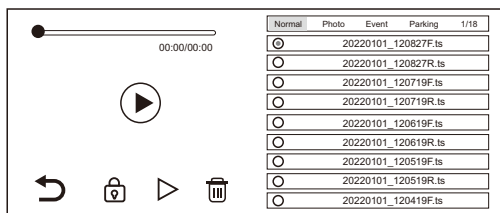
A: When connected to Carplay, you can use the RoadCam to control the carplay monitor at the same.

Q: How to connect the original car audio

A: After connecting to Carplay/Android auto, you can turn on the carplay monitor FM and turn on the car radio. Tune them to the same frequency, the phone radio will be projected to the car.

C. Tap  to enter playback interface.

Note: To achieve replay function, please insert TF card.

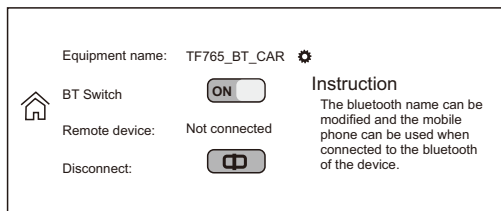


Select the video file to be played from the playlist and tap it.


During playback, tap the lock/delete icon to lock/delete the playback video file.

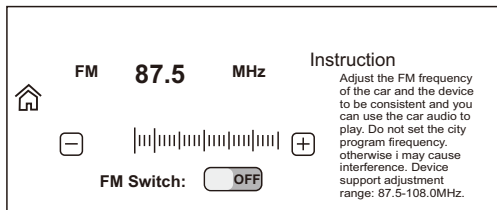
If a video file is locked, the video will be moved to the Event directory and it won't be deleted or overwritten when the TF card is full.

D. Tap  to enter Bluetooth interface




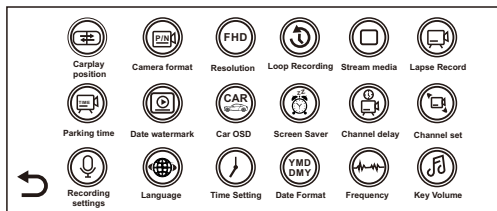
1. Tap  to set the Bluetooth name
2. Turn ON/OFF the BT Switch
3. Tap Disconnect to disconnect current connection

E. Tap  to enter FM setting



1. Turn ON the FM Switch
2. Select FM frequency from 87.5 to 108MHz by tapping - or +.

F. Tap  _{Setting} to enter setting interface



Carplay position

Tap Carplay position to set the carplay in the left, right, or full screen.

Camera format

Tap camera format to set the camera format 720P PAL/720P NTSC/1080P PAL/1080NTSC.

Resolution

Tap Resolution to set dashcam recording resolution 2.5K/1080P/720P.

The rear camera recording resolution is 1080p by default.

Loop Recording

Tap Loop Recording to set duration 1Min/3Min/5Min for each recording file.

Stream media

Tap Stream media to set the display mode in Driving recorder.

If Front and rear camera selected, the dashcam and rear camera will be displayed as split screen in Driving recorder.

If Front camera selected, only dashcam will be displayed in screen in Driving recorder.
If Rear camera selected, only rear camera will be displayed in screen in Driving recorder.

Date watermark and Car OSD

Turn on Date watermark and Car OSD, enter your license plate number. After setting, the license plate number and time will be displayed in the upper left corner of every recorded file.

Screen Saver

Screen saver can be set off/1/3/5 minutes.

If you set 1Min, the screen will automatically turn off after 1 minute of no operation.

Tap the screen again or press the power button awake the screen.

Screen Saver is Default OFF.

Channel set

Tap Channel set to change "flip" and "mirror" settings for the front/rear view camera respectively.

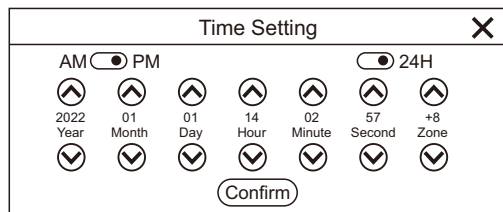
Recording settings

Select On to enable recording with sound.

Language

11 languages selectable.

Time Setting

A screenshot of a 'Time Setting' dialog box. At the top, it says 'Time Setting' with a close button (X) on the right. Below this, there are two toggle switches: 'AM' (selected) and 'PM', and '24H' (selected) and '12H'. Below these are seven input fields, each with an up/down arrow icon. The fields are labeled: '2022 Year', '01 Month', '01 Day', '14 Hour', '02 Minute', '57 Second', and '+8 Zone'. At the bottom center is a 'Confirm' button.

Time Setting						
AM <input checked="" type="radio"/> PM		<input checked="" type="radio"/> 24H				
2022 Year	01 Month	01 Day	14 Hour	02 Minute	57 Second	+8 Zone
<input type="button" value="↑"/>	<input type="button" value="↑"/>	<input type="button" value="↑"/>	<input type="button" value="↑"/>	<input type="button" value="↑"/>	<input type="button" value="↑"/>	<input type="button" value="↑"/>
<input type="button" value="↓"/>	<input type="button" value="↓"/>	<input type="button" value="↓"/>	<input type="button" value="↓"/>	<input type="button" value="↓"/>	<input type="button" value="↓"/>	<input type="button" value="↓"/>
<input type="button" value="Confirm"/>						

Turn ON 12H AM/PM or 24H.

Select Year/Month/Day/Hour/Minute/Second/Time Zone. Tap Confirm after setting.

Date Format

Select the date format YY/MM/DD MM/DD/YY DD/MM/YY

Key Volume

Set whether to make a sound when tap the screen.

Boot sound

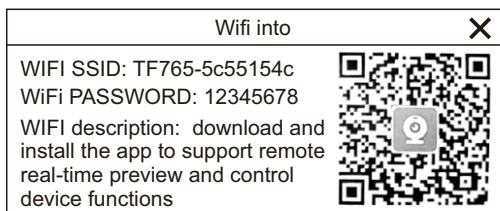
Turn ON/OFF the boot tone when you turn on the device.

Voice Ctrl

Turn ON to activate voice command function.

Wifi switch and Wifi info

Turn ON Wifi switch and tap Wifi info. Scan code to download roadcam app. Login app with provided Wifi SSID and password. After that, it will realize real-time remote control of the device.



Format SD

This option will format all data of the inserted TF card. It is recommended to format the TF card when inserting it for the first time.

Note: It is recommended to format the TF card regularly.

Reset Factory

If you choose restore factory settings, the device will restore all settings to factory settings.

Version

It shows current software version, which is convenient for future software updating.

Roadcam APP



Tap  to enter setting

