



Car Camcorder BS-F110 User Manual

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Notes

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Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union



This symbol on the product or on the packaging indicates that the product can not be disposed of as a household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

1. Install the front-view camera near the rear-view mirror to obtain the best open-field view.
2. Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.
3. Install the rear-view camera either on the dashboard to observe the interior, or on the rear window to observe the road.
4. Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or snapshots. Clean the lens on a regular basis.
5. Do not install the device on a tinted window. Doing so may damage the tint film.

5. Specifications

Item	Description
Chipset	Ambarella A7LA50 in each camera
Image Sensor	Front camera: OmniVision OV4689, 4.0 MP Rear camera: OmniVision OV4689, 4.0 MP
Video Resolution	Front camera: Super HD (2304x1296) @ 30 fps Rear camera: Super HD (2304x1296) @ 30 fps
Lens	Wide angle 120°
Video Format	MOV, H.264
Screen	2.0" TFT LCD
Storage Media	Support MicroSD up to 32Gb class 10
G-Sensor	3-Axis G-Force sensor
Motion Detection	Yes
Microphone	Yes
Speaker	Yes
Interface	Mini USB, Mini HDMI
Battery of Each Camera	Built-in 350 mAh Li-polymer rechargeable
Operating Temperature	-10° ~ 60° C
Operating Humidity	10 ~ 80 %
Dimensions	Camera 76x50x26 mm Controller 100x40x14 mm Hub 118x59x12 mm

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- Make sure that the installation position is not hindered by the tinted window.

Caution

- Use the branded charger only
- Never disassemble by yourself
- Never short-circuit the battery
- Dispose of the battery properly
- Exposing the battery to open flames can cause explosion

1. Introduction

Thank you for purchasing this advanced Car Recorder. This device is specifically designed for real-time video and audio recording when driving

1.1 Features

- Dual-channel Super HD recording (2304x1296 @ 30fps)
- Wide angle lens 120 degrees
- 2.0" LCD color screen
- Support MicroSD card up to 32Gb
- HDR and WDR functions
- External GPS

1.2 Package Contents

The package contains the following items:

Car Recorder - 2 pcs

Controller

Hub

Bracket - 2 pcs

Car Adapter

USB Cable

Mini HDMI Cable

GPS Logger

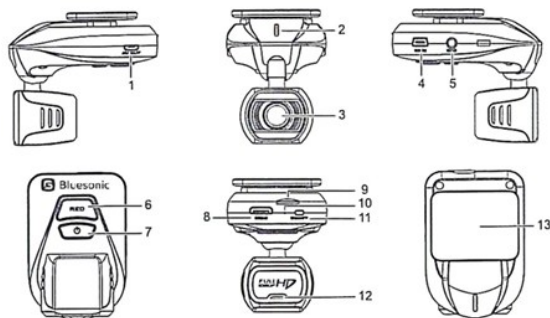
AV-out Cable - 3 pcs

Sticker - 2 pcs

User Manual

1.3 Product Overview

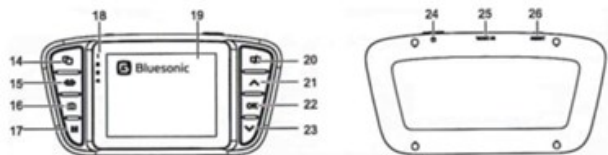
Car Recorder



No.	Item	No.	Item
1	Power Connector	8	HDMI Connector
2	Speaker	9	Memory Card Slot
3	Lens	10	Microphone
4	USB Connector	11	Reset Button
5	GPS Connector	12	Indicator
6	Record Button	13	Bracket
7	Power Button		

Note: To operate the device, press the corresponding buttons (6~7) according to guide icons shown on the screen.

Controller



4.2 Menu Tree

Refer to the below table for details on menu items and available menu options.

Menu option	Description	Available option
Resolution	Set the video resolution	Super HD (2304*1296) @ 30 fps WHD (2560x1080) @ 30 fps Full HD (1920x1080) @ 45 fps Full HD (1920x1080) @ 30 fps HD (1280x720) @ 60 fps HD (1280x720) @ 30 fps
Loop recording	Set the recording duration for each recorded video file	Off / 1 Min. / 3 Min. / 5 Min.
Motion Detection	Enable/Disable the motion detection.	Off / On
LCD Rotate	Set to rotate the screen 180°	On / Off
Frequency	Select the frequency	50Hz / 60Hz
Auto Power Off	Select the time for auto power off	Off / 1 Min. / 3 Min. / 5 Min.
Date/Time	Set the date and time	
Date Stamp	Enable/Disable the date stamp	Off / On
Gravity Sensing	Enable/Disable the collision detection.	Off / High / Medium / Low
Language	Set the on-screen display menu language	
Default	Reset all settings to factory default settings	Cancel / Ok
Format	Format the MicroSD card by deleting all the files	Cancel / Ok
Version	Check the current software version	

Recording all other types of videos

1. Short press the Record Button on the Camera. Or choose the channel wanted on the Controller and short press the Ok Button to start recording.
2. Press the OK Button again on the Controller, or the Record Button on the Camera to stop recording.

Note: The video file is saved for every 1, 3 or 5 minutes of recording. The device saves the recording in the memory card. If the memory card is full, the oldest file in the memory card is overwritten. To turn off the Microphone when the recording is in process, short press the Down Button on the Controller.

Taking Snapshots

You can also use this device to take snapshots of the current scene. Press Camera Button to enter the to take a snapshot.

3.2 Playing Videos and Photos

1. Press the Mode Button on the Controller to enter the Playback Mode.
2. Press the Up/Down button to select the video files and photo files.
3. Press OK button to play or pause the video.
4. Press the Mode Button to exit Playback Mode.

4. Adjusting the Settings

Using the Menu

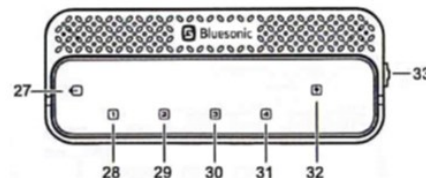
You can customize the video recording and other general settings via the on-screen display (OSD) menu.

Please mind, you have to set the Menu Settings for each camera separately.

1. Press the Menu Button on the Controller to enter the menu interface.
2. Press the Up/Down Button to select a menu option and press the OK Button to enter the selected menu.
3. Press the Up/Down Button to select the desired setting and press the OK Button to confirm the setting.
4. Press the Mode Button to exit the Menu.

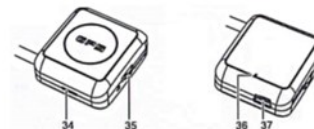
No.	Item	No.	Item
14	Channel Mode	21	Up Button
15	Menu Button	22	Ok Button
16	Camera Button	23	Down Button
17	Mode Button	24	Power Button
18	Channel Indicator	25	AV-out Connector
19	LCD Screen	26	Reset Button
20	Backlight Button		

Hub



No.	Item	No.	Item
27	AV Connector	31	Channel4 Indicator
28	Channel1 Indicator	32	Power Indicator
29	Channel2 Indicator	33	Switch
30	Channel3 Indicator		

GPS Logger



No.	Item	No.	Item
34	Speaker	36	Power Indicator
35	Mute	37	USB Connector

2. Getting Started

2.1 Inserting the Memory Card

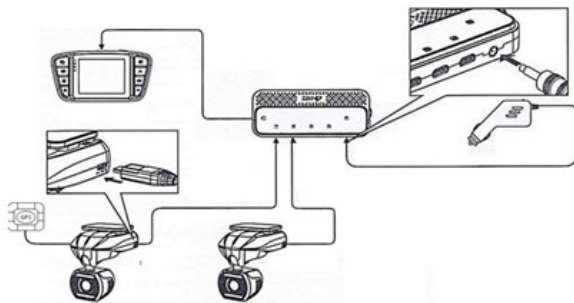
Insert the memory card and push it until it clicks into place.

To remove the memory card

Push to eject the memory card out of the slot.

Note: Do not remove or insert the memory card when the device is turned on. This may damage the memory card.

2.2 Connecting to Power



Use only the supplied Car Adapter to power up the device and charge the built-in-battery.

1. Connect the cameras to the corresponding slots on the hub.
2. Connect one end of the Car Adapter to the USB Connector of the device.
3. Plug the other end of the Car Charger to the cigarette lighter socket of your vehicle.

2.3 Installing in Vehicles

Mounting to Windshield

1. Attach the device to the bracket base with sticker. Make sure the device is securely locked in place.

2. Position the sticker on the windshield with the sticky surface and press for a moment. Make sure the base is securely attached to the place.
3. Attach the second camera on the rear window, using the sticker.
4. Hold the camera firmly on the windshield and press for a moment until the sticker sticks to the glass. Make sure the base is securely attached to the place.

2.4 Powering the Device On/Off

Auto Power On/Off

Once the vehicle engine is started, the device automatically turns on if the switch is in ON position on the Controller. If the Automatic Record Function is enabled, the recording will automatically start right after the device turns on. Once the vehicle engine shuts down, the device automatically saves the recording and turns off the power.

Manual Power On/Off

To manually turn on the power, chose the camera with the help of Channel Switch and long press the POWER Button.

To turn off, press and hold the POWER Button for at least 2 seconds.



3. Using the Car Recorder

3.1 Recording Videos

Recording videos while driving

When the vehicle engine starts up the device automatically turns on and starts recording. Recording will automatically stop when the engine is switched off. Or, press the OK Button to stop recording manually.

Note: On some cars, the recording will continue when the engine is switch off. If this happens, do one of the following:

1. Manually turn off the cigarette lighter.
2. Remove the car adapter from the cigarette lighter.