
Dash Camera



User Manual

Ambarella A7

Please read this manual carefully before using this product.

Please get this manual well-kept for future reference.

Please use it correctly based on a full understanding of the manual

Preface

Precautions

General precautions

- There may be a layer of plastic film on the lens ,which is tended to prevent any scratch transportation. In the case,please remove the protive film before putting the product into use.
- If you can not start the DVR when you receive it, please do not worry and charge it for a while , then try it again.
- Please format the card for the first time use . And after using for a period of time,the DVR seems not work well , format the card again!
- Do not expose the recorder to high temperature. High temperature may shorten the life span of electronic device, damage the b
- Do not situate the recorder under cold environment. When the product is preheated to its correct temperature, there will be moisture inside and damage the circuit.
- Do not try to disassemble or repair by yourself. Doing so may lead to electric shock from the internal high-pressure components.
- Do not drop or punch the recorder. Otherwise the internal components will be damaged.
- Do not clean the recorder with chemicals, cleaning solution or high concentration detergent. Please wipe it with slightly damp soft cloth.
- Send the recorder or any other accessories to the professional service center for

maintenance when they do not work well.

Operational condition

-According to the design, the camcorder should be operated within the temperature range from 0 degree to 40 degree (32 to 104)

-Do not operate or expose the camcorder under following condition:

—Direct sunlight area

—High temperature or dusty area

—Near air conditioner or heaters or any other extreme temperature area

—In a closure car, especially parking in direct sunlight

—Violent vibration area

1 Brief Introduction of the Recorder

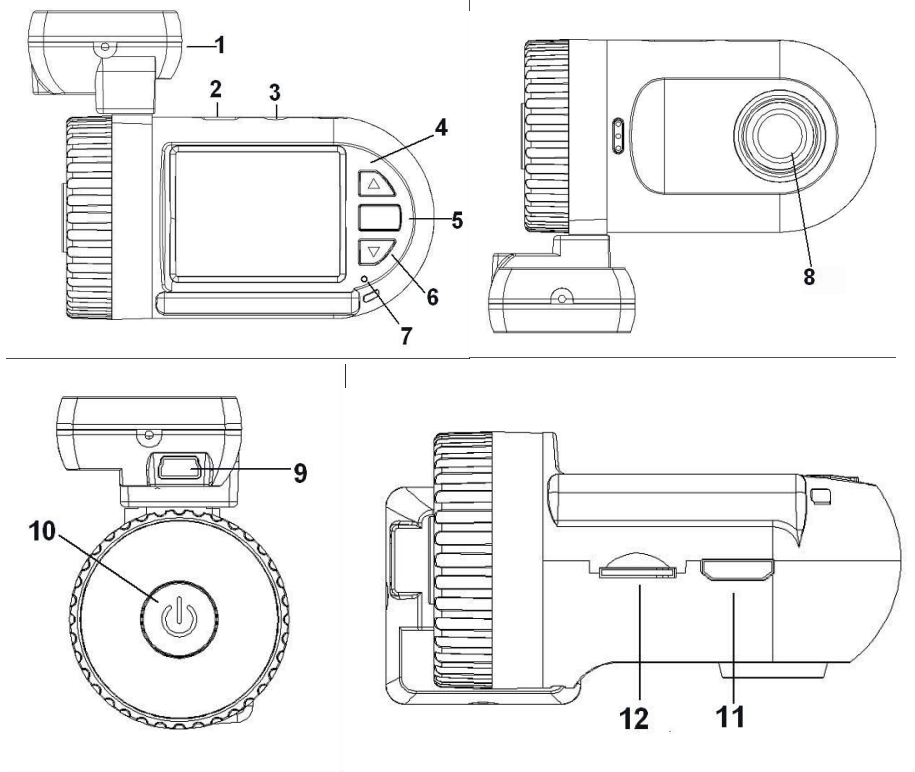
The features and functions are introduced in this chapter. In addition, PC system requirement, list of items and description of the hardware components are included.

1.1 PC System Requirements

The PC system needs to meet the following requirements :

- Windows Vista/XP operating system
- Intel Pentium 4 2.8GHz CPU or above (recommended 3GHz)
- At least 512 MB RAM or above (recommended 1GB)
- Standard USB2.0 port or above
- At least 64MB video card or above

1.2 Recorder appearance and feature icons



1. GPS tracker box also bracket ,3M sticker put here and then stick to car front window.

If no GPS ,it is as a bracket only,

2.USB port 3. AV port 4.Up button/menu/mute hot button

5. OK 6. Down /SOS button 7. Light indicator 8.Lens

9.USB (working only when with GPS tracker box)

10. Power on/off/reset (Long press it as reset button)

11.HDMI port 12.Tf slot

Copy function for backup video (8-16GB memory card built in) (Optional)

Video clip can be copied between external and internal storage,then you will have backup after you hand over card to police or the court. (Optional)

First you should choose the card(see 2.5.4 how to choose card),then

1. Long press "Down" button and into Movie reviewing
- 2.Then long press "up" button you can copy video to another card

Operation

Read this chapter to know how to operate the recorder.

2.1 Inserting a TF card

Inserting a TF card into the camera provides more space to store videos, images or other files.

Please use high-speed TF card meeting the specification of TFHC. (Class6 is perfect .Class10 may cause some problem because the speed of card is too fast, it is better not use Class10 card)

2.2 Turning on your recorder

Press Power button to turn ON/ OFF the power. Or connect to the car charger ,it will turn on when the car start .

2.3 Take a picture

Taking a still picture

1. On recording , Long press "OK" button and take a picture
2. On stand by ,Long press"OK" button and take a picture

2.4 Reviewing the pictures

1. Long press "Down" button and into Movie reviewing ,then long press "Down" button again and then you can review the pictures.

2. Then long press "up" button you can do something setting about the pictures: delete file/ protect file/auto play/copy to another card/ choose card

3. Press "OK" button to confirm.

4. Long press "Down" button to back to other mode

2.5 Before using

Before using the recorder, it is necessary to do some basic settings such as Date and Time, Language and GPS speed unit etc

2.5.1 Setting Date and Time

Power on the camcorder. Press Menu (Long press up button) ,then press up and down button to choose Date and Time and press OK button to confirm .

2.5.2 Setting Language

Power on the camcorder. Press Menu (Long press up button) ,then press up and down button to choose language and press OK button to confirm .

2.5.3 Loop setting

Off/1minutes/3minutes/5minutes

1. On off mode,

a. **The device can not record** automatically and can not record by recycled .

b. Maximum length of each recorded video file is 3.66G. When it reaches the maximum, the recording is automatically split and saved as another file.

c. if the space is full, the previous files will not be deleted; when card is full , will show "card full " and can not continue record

2. When the loop setting mode is "1 min", "3min", "5min"

a. Power on , the device will record automatically

b. if the space is full, the previous saved file will be automatically cover and overwrite.

2.5.4 Setting other features

Read this chapter to know how to configure the setup and fine-tune the functions

Power on the camera, Press Menu (Long press UP button), press UP and DOWN button to choose the icons and press OK button to confirm.

1. Video resolution: 2560*1080 30P 21:9 / 2304*1296 30P 16:9 / 1920*1080 45P 16:9 1920*1080 30P 16:9 HDR 1920*1080 30P 16:9 / 1280*720 60P 16:9 / 1280*720 30P 16:9

2. EV: 0/-0.3/-0.7/-1.0/-1.3/-1.7/-2.0/+2.0/+1.7/+1.3/+1.0+0.7/+0.3

3. Flicker: 50/60Hz

Use this function to set the flicker frequency in your area.

4. Lens: wide angle 135 degree+6G

5. White Balance

This item is for correction in different colors under different light conditions. When the white balance is set as Auto, the camcorder compensates different light conditions automatically.

AUTO/Sunny/Incandescent/ fluorescent /cloudy

6. ADAS: LDWS (Land Departure Warning System)

FCW (Forward Collision Warning)

FCMD (Forward Car Motion Detection)

7. TV type: NTSC/PAL

8. AUTO power off

9. Date time display: Date time/off/date/time

10. Motion detect: off/on

11. Power off screen: off/1minutes/3 minutes/5minutes

12Video camera mode: Video + audio / video

13. G-sensor precision: 2G/2.5G/3G/3.5G/4G/4.5G/CLOSE

14. WDR/HDR

15. USB Mode: Mass storage

16. Choose card: external card / internal card (this function is optional)

17. Language: English/Russian/Chinese

18. Default setting : Yes/No

This function will restore all the settings to the factory defaults.

19.Format: Yes/No (Please format micro SD card at first use, and format micro SD

card regularly to avoid storage problems.)

Use this function to Format the storage medium. Note that all the data stored in the medium will be gone.

20. Speed Unit: OFF ; Km/h ; Mph (please choose speed unit before using GPS function).

21. Firmware version

2.5.5 Stamp :Date time/time /date/car/driver number/off

a. When you choose date time and car ,then driver number can not show ,it is not enough space.

Under car mode ,it will display the location latitude and longitude after connect to GPS

b. When you choose date time and driver number , then GPS information can not show , it is not enough space.

C. Driver number is 9 character driver number, license plate

2.5.6 GPS: Open/close (Some model without GPS Function)

GPS tracking (effective with GPS-IN function) For the model with GPS ,If NO GPS ,NO this function

1. Plug in the GPS module to the DVR, satellite searching will be start automatically .

2. When GPS signal is located,  will be showed on the display .

3. Power should connect to GPS Module only

2.6 Review/playing your video files

1. Long press "Down" button and into Movie reviewing to display the latest video files on the LCD screen .
2. Then long press "up" button you can do something setting about the video: delete file/ protect file/auto play/copy to another card/ choose card
3. Press "OK" button to confirm.
4. Long press "Down" button twice to get back to other mode

2.7 Connecting PC

Connect the DVR to computer with USB cable included. (Effective under recording settings off)

2.8 Connecting the DVR to Standard TV .(Effective with AV-OUT function)

Connect your recorder and Standard TV via Accessory AV cables.

2.9 Connecting the DVR to HDTV

When connecting to HDTV, you can use high resolution to display video files or pictures.

Use HDMI cable to connect the camcorder video or audio signal to HDTV.

Attention :

When connected to HDTV, shuttering, recording and taping are not available!








3.0 Recording Mode

This mode is for recording a video or tacking picture file. The files are saved into TF card.

3.1 Some icons meaning

Record Mode :

About the indication of each icon and symbol, see the table below.



	Video Mode		Battery
	TF Card		Motion Detection
V:-----	Car speed monitor after GPS searched satellite .		White Balance Auto, Tungsten, Fluorescent, Daylight, Claudy indictor .
Super HD	Resolution	2008/01/01 01 : 07AM	Date and Time
	Segmented loop recording time		GPS

3.2 Playback mode

Using Play back mode to display all the video files saved in the DVR .

About the indication of each icon and symbol, see the table below

000:00:1	
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5	Playback time		Play
	Battery		Pause

3.3 USB mode


You can use USB mode to connect with the host PC via micro USB port in camera, do not use the micro USB port in the GPS module or bracket. ((Effective under recording settings off))

When the camera is connected with the host PC, it appears as a removable disk in the Windows explorer.

4. Protection


4.1 When reviewing the video,

1. Long press "Down" button and into Movie reviewing to display the latest video files on the LCD screen .


2. Then long press "up" button you can move to protect file button then setup protect one file or all ,etc .The file with  are protected.

3. Press "OK" button to confirm.

4. Long press "Down" button twice to get back to other mode

Attention : To unlock the files, repeat the steps above. After being unlocked, no files are with ; under Loop record setting , the previous file is not protected , protects only the last cycle recorded file .


4.2 When recording (SOS)

Press down button and the current file will be save and lock and can not be deleted. 

4.3 When you copy the video to another memory , The copied file will be locked .

5. How to use the built in GPS player in the firmware :

1.Insert your micro SD card into DVR; the DVR system will copy the GPS player to your SD card automatically.

2.Connect your DVR to computer, find [Player] file, double-click the  to start the player. At the same time, it will jump out a window as below, please choose YES to download the Quicktime. You need install the driver (named Quicktime) before using.

(You can also visit Quicktime website to download it directly:

<http://www.apple.com/quicktime/download/>)

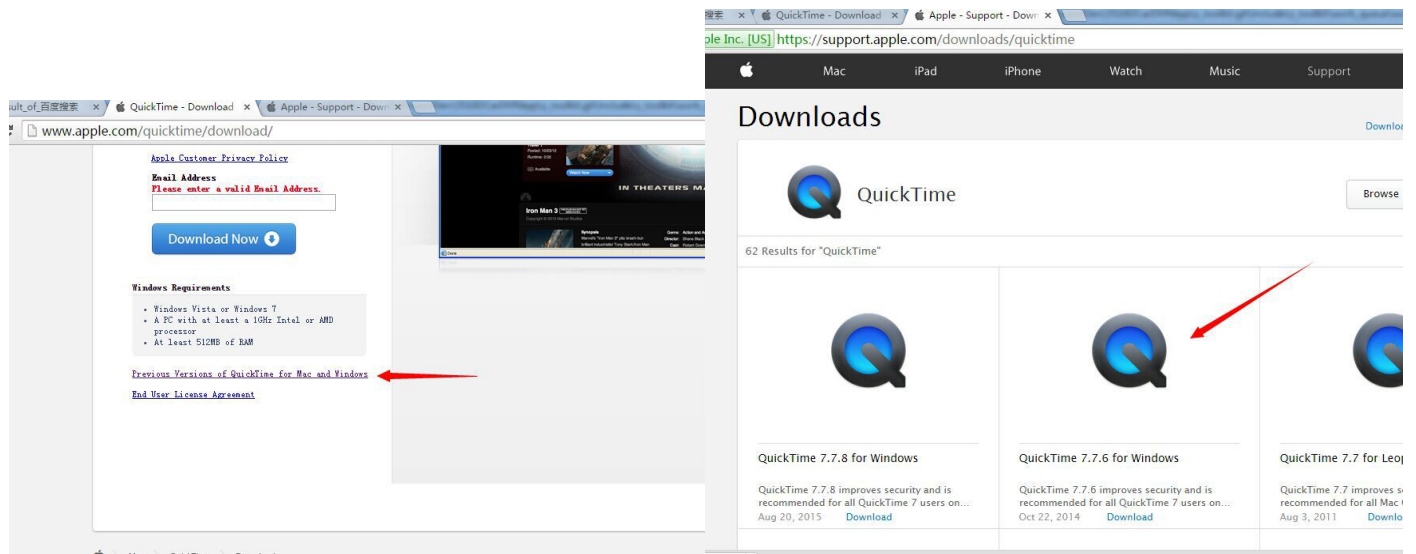


Please click the red arrow words:

1. Previous Versions of QuickTime for Mac and Windows

2. QuickTime 7.7.6 for Windows


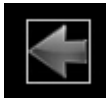

3. Download



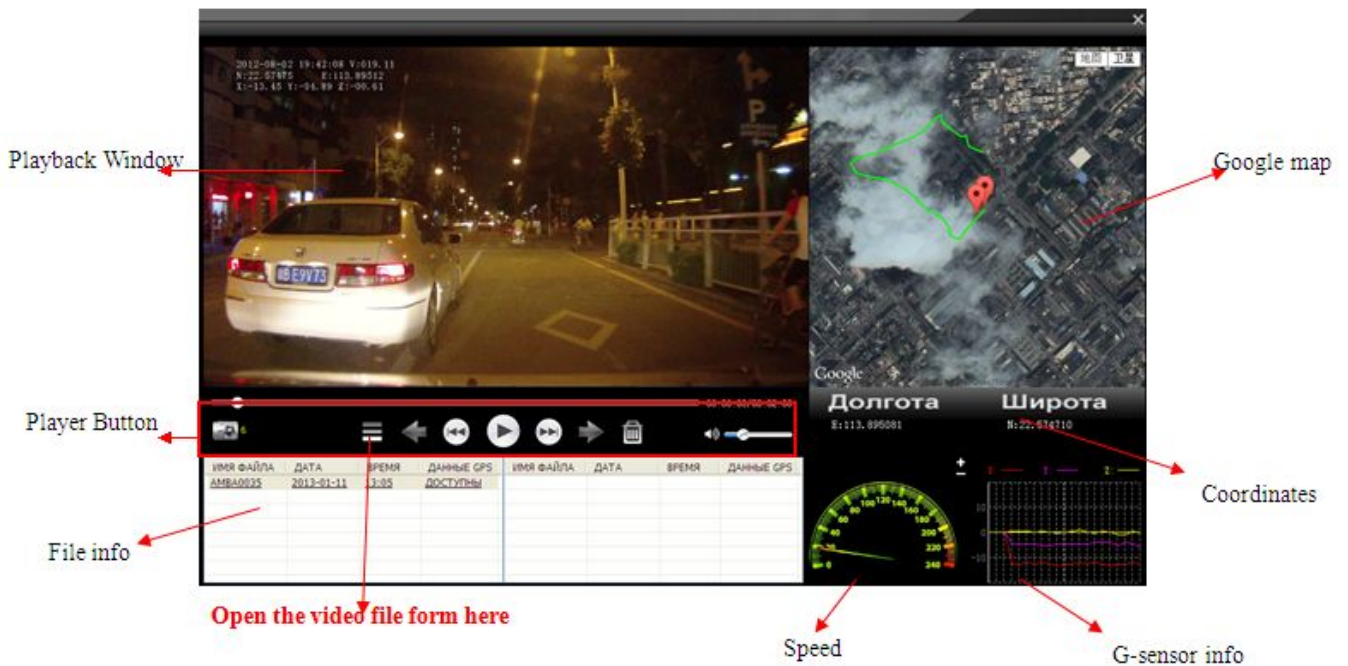
1. After download, find the Quicktime driver  QuickTime Installer Apple Inc. , double-click to install.

2. After installing the Quick time in your computer, now you can back to micro SD

card and use the GPS player  QtPlayer.exe now.

3. click  to import files from DVR, use  or  to check more files.

Player Icon:



Remarks: If user use QuickTime Player to play the video directly, it will not have GPS track.

So we suggest user copy PLAYER file from micro SD card to computer, and play the



QtPlayer.exe
QtPlayer.exe

videos on QtPlayer.exe, by this way, all the GPS information will be showed.



Appendix

Specification

Image Sensor	3.2M CMOS
Chip	Ambarella ,A7 1296 P 30FPS
Lens	135 Wide angle
External memory Internal memory	up to 128G Built-in 8-16GB (Optional)
WDR/HDR	Support
Display	1.5"TFT
Still images	Format : JPEG Quality : Auto
Videos	Format : H.264 (MOV) Format : H.264 (MOV) Resolution : 2560*1080 30P 21:9 / 2304*1296 30P 16:9 / 1920*1080 45P 16:9 / 1920*1080 30P 16:9 / HDR 1920*1080 30P 16:9 / 1280*720 60P 16:9 / 1280*720 30P 16:9 / Quality : AutoQuality : Auto
Audio	Built-in microphone/ speaker
Tape	Yes
White Balance	Auto Tungsten Daylight

	Cloudy Fill light Fluorescent
Exposure compensation	-2.0EV~+2.0EV
Time ,date	On/off , date and time watermarking function
Output	HDMI HD Audio-Video output
PC Interface	USB2.0 (High-speed)
AV Output Format	NTSC/PAL
Battery	Built-in Lithium ion battery

Troubleshooting

Question	Possible reasons	Solutions
The camcorder is suddenly turned off	Auto Off Function is On. Low battery	·Turn on again the recorder Charge battery
Captured images are not saved into memory	Power is off before the images are saved.	Charge battery
Memory card can not be used	Memory card is protected.	·Unlock the memory card. ·Format the memory card. Before

	Memory card contains non-DCF images from other cameras.	formatting, make sure to backup files first.
All the buttons are invalid.	Short-circuit when connecting camcorder with other equipments.	Long press the power button

Light indicator

Red ,charging

blue ,stand by

Blue flashing redording

Recorder Parts

Name of items	Quantity	Name of items	Quantity
Mini car DVR	1 piece	Car charge	1 piece
USB cable	1 piece	3M sticker	1 pieces
Bracket	1piece	User Manual	1 piece

NOTE: Alterations reserved.

About the Manual

We have tried our best to make sure that what in this manual is right and updated. However, we can not guarantee that all the content is correct without any errors. If there is a difference between the manual and recorder, please take the recorder as standard. We keep the right to change content or technical regulations without informing you beforehand. In addition, the manufacturer keeps the right to change technical specification without informing you beforehand.

If the accessories are different from the ones inside the actual product, please take the actual product as standard.

