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Product Features

- High Quality Video image: Full HD 1080P 30fps, provides crystal clear images without missing any details.
- high sensitivity image sensors with BSI technology which delivers stunning low-light picture quality with less blur and no glare.
- High-speed image processor: Using Ambarella high-speed processor chip.
- Lens: 6G and IR construction with F 1.9 Lens is had great light transparency to enhance the night recording image.
- Wide angle lens: 128 degrees wide angle lens (diagonal angle)
- GPS positioning information: Travel time, speed, driving directions and coordinates are recorded completely and synchronously.
- Add Speed Position: It can be set up via Hot Key.
- Speed limit alert: Set up the speeding reminder. Abee V51 will send out a warning sound immediately when the speed exceeds the set value.
- Flexible setting speed limit of speed point: Set up the limit of over seeding alert flexibly.
- Under general mode, press a key to take a picture. It is unnecessary to stop recording.
- Sound control: Turn on / off sound effect and voice alert via one button.
- Circulating Recording: The recording footage can be set, 2 or 3 or 5 minutes, and it will automatically overwrite the old footage.
- Collision Detection: G-Sensor will automatically record and protect the file when have an accident or the impact occur.
- Emergency Record: One button to protect the important incidents.
- Specialized Player: Have a specialized viewer for video playback , Google Map, driving direction, G-Sensor display.

- Big color screen: 2.4” TFT LCD, providing clearer image, perfect for instant video playback.
- HQ video output: Can connect the device to Full HD TV via HD cable.
- Automatically Record: When the car started, Abee V51 will start to record automatically; when the car turned off, Abee V51 will save the file and shutdown automatically.
- Delay shutdown time: When turn off the engine or disconnect to power source, the device will still keep recording for 10 seconds before shutdown.
- Motion detects function, automatically record 5-10 seconds before the motion is detected until the motion is stop.
- White Balance auto sensing.
- High temperature resistance, the parts and battery are all pass the high temperature test, very save to use in the car.
- Built-in high temperature resistance Lithium polymer battery: with the battery, we can use the device as a handy cam in any situation.
- Memory card: Support up to 32G Micro SDHC Memory card.
- USB 2.0 interface: hi-speed data transfer to your PC.
- BSMI testing process passed & CE/FCC certified, the device will not interfere with GPS navigation signals.
- It complies with RoHS as well.

Notes

Usage

1. Please use Class 6 or upper, 8GB or upper Micro SD card to avoid the lag of image.
2. To set up the device, please stop recording by pressing the Menu button to enter set up menu.
3. The Satellite Time is showed automatically when the Satellite Time Auto function is turned on. In this condition, the time setting can't be changed manually.
4. Please use Abee V51 original car charger and accessories.
5. In vehicles where power to the cigarette lighter remains on after the engine has been turned off, please remove the cigarette lighter plug to avoid draining your car battery or other accidents.
6. After the car engine has stopped, the power supply been cut off, or any event that interrupts the power supply occurs, a spare battery allows continued recording to the memory card. Do not remove the Micro SD memory card or the file may be damaged.
7. Do not expose your product to direct sunlight.
8. Do not connect car transformer to car battery power directly (this installation is not in covered under the product warranty).
9. When continuously using the device for a long period of time, the device might slightly heat up. This is very common, do not worried.
10. Do not disassemble or modify your product. Consult your dealer or our customer service center in case of having problem with product.
11. Do not drop or subject the product to blows or force. Do not press hard on

the LCD screen. This may damage it or cause it to malfunction.

12. In general recording mode, press the record button to enter emergency recording mode, on the upper right corner of the screen will immediately show "!Emergency" message, this means the file is protected. The file will not be deleted from loop recording. 8G memory card (or above) can save up to 10 emergency video files.
13. Do not expose your product in moisture, please keep your hand dry when operate the device.
14. Do not clean the product with cleaners containing strong acid or alkaline.
15. Devices and batteries need recycling.
16. Before using your device, please read the user's manual carefully.

Micro SD memory card

1. Please use Micro SDHC memory cards, class 6 or upper. 8G or more of memory space is recommended, Support up to 32G.
2. Please format the memory card with device before using it.
3. Please don’t insert or remove the Micro SD card when the device is still on, to avoid the card damage.

Appearance

① On/Off Key

② Menu/Exit/Mute key

③ Up/Delete/Photo/Add Speed Position key

④ Down/Play/Stop key

⑤ Record/Emergency/OK/Pause/Play key

⑥ Display Monitor

⑦ Recording Indicator

⑧ Bracket Slot

⑨ Micro SD slot

⑩ Mini USB port

⑪ HD output

⑫ Lens

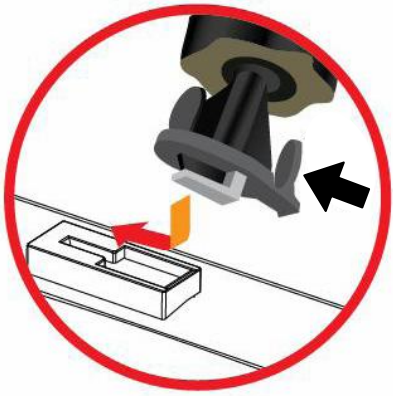
⑬ Speaker

⑭ Microphone

Hardware Installation Guideline

Installation

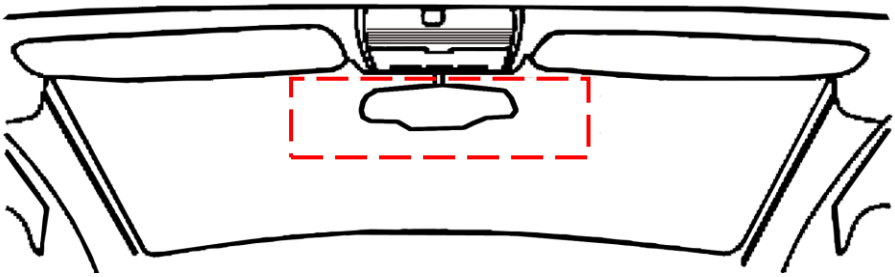
1. Insert the latch on top of your product in the socket of the car stand to connect the two.
2. Place your driving recorder in the proper position in your car. Stick the suction plate to your car window; press the plate button to secure the stand.
3. Release the adjusting knob, set to the best shooting angle, and lock the adjusting knob to secure the recorder in position.



Un-install

1. Uninstall the device: press and hold the stand latch push it to the right to remove.
2. Uninstall car stand: Pull up the car stand suction plate button to remove it.

Installation recommendations



1. Install your product as close as possible to the rear view mirror in your car to get the best view. (as in picture)
2. The lens should be in the area that windshield can be cleaned by your wipers to get good images on a rainy day.
3. Do not install your product in a place that may interfere with operation of the air bags in your car.
4. Do not place your product in a position that may be blocked by the heat insulation.
5. Do not place any interfering electronic product around the installation.
6. Clean the bracket suction plate before installation.

Warning
Do not install Abee products over an air bag cover or within the air bag deployment zone. The company assumes no responsibility of liability for injury or death as a result of car crashes and/or air bag deployment.

Operational Guideline

Turn on/ Turn off

1. Turn on:
   When there is no external power, press ON/OFF key and hold for 1 second to turn on the device.
2. Turn off:
   When the device is power on, press ON/OFF key and hold for 1 second to turn off the device.
3. Auto turn on and off:
   ※ When the car charger is powered by the cigarette lighter socket, your device will automatically turns on when the engine is started.
   ※ When the car charger is powered by the cigarette lighter socket, your device will automatically turns off when the engine is stop.
   ※ If your device is powered by the cigarette lighter socket, it will automatically turn off if the external power is removed (by unplugging the USB car charger cable).
   ※ in case the device is still powered by car cigarette charger while the engine is off; In this case the auto power on- off function is not supported.

※ **Troubleshooting**

1. Please check whether insert Micro SD card.
2. Please check whether Micro SD card space is not enough or file error.
3. If it can be not ruled out, please back up the memory card and format it via device.

Recording

1. General recording:
   Under general mode, press key to choose **REC**, to start recording mode.
2. Auto Recording:
   In the auto recording mode, the device will turns on and enters the recording mode automatically when the power is connected.
3. Stop Recording:
   Under recording mode, press key to choose **STOP**, to stop recording.
4. Stop recording after power off:
   Under the recording mod, when turns the power off, the device will stops recording, automatically saves the file and turns off.

Emergency recording

1. Under the recording mode, press key to enter the emergency recording mode, on the upper right corner of the screen will immediately show “Emergency Recording” Message. The file will not be deleted from loop recording, press key to stop recording.
2. With the collision detection on: when the collision occurs, the device will automatically trigger the emergency recording mode to protect the file.
3. 8G memory card (or above) can save up to 10 emergency video files.
4. When the emergency recording file is full, under the recording mode

press to enter emergency recording mode, it will show the message “emergency file is full” and the oldest emergency file will be overwritten.

Take a picture

1. Under general mode, press key to take a picture. After take a picture it will return to general mode.
2. Under general mode, press key to take a picture. It is unnecessary to stop recording.

Video playback/Snap

1. Video preview:
   Under general mode, press key to choose **Play** to enter the video playback menu, use up & down key to choose the video and press to choose **OK** to play the video, press key to choose **Exit**, to return to the playlist.
2. Capture the screen while playing:
   While the video is playing, press (Snap) key to capture the video screen.

GPS

1. GPS positioning:
   When turning on the device, the GPS positioning status is appeared in the screen upper-right corner. You can see those symbols meaning of three section of signal strength. When showing this

symbol meaning of no signal. The car speed is appeared in the screen upper-left after GPS positioning completed.

Speed Limit Alert

1. Speed limit alert:
   Set a speed limit according to your preference in MENU. A voice alert will appear every time the pre-set speed limit is exceeded.

Sound control and Voice alert

1. In general or recording mode, press

key for seconds for turning off the sound, voice alert and warning alert with symbol in the screen upper-right. Once again, press

key for seconds, the symbol of screen upper-right will be disappeared and the sound, voice alert and warning alert will be back to default.

Menu function

In general mode, press the key to choose **Menu**, to enter the menu screen.

1. File play:

   In the menu screen, choose **File play** . And use key and key to choose type of **Video**, **Emergency** or **Picture**. After choosing the type of video you will see the video playlist, use key to choose the video, press key to choose **OK** to playback, press key to choose **Exit** to return to the playlist.

2. Satellite Status: Choosing the **Satellite Status** to learn satellite status including quantity received and signal strength.

3. Satellite Time Auto: It can be set up automatically or manually by select **Satellite Time Auto**, use key to set or close Time Zone.

   ※ The Satellite Time is showed automatically when the Satellite Time Auto function is turned on with GPS positioning completed. In this condition, the time setting can't be changed manually.

4. Date/Time setting: to set up the current time

   In the menu screen, select **Date/Time** in the menu screen. Use key and key to choose **OK** after setup has been completed it will automatically return to the previous screen.

5. Time Stamp: to set up whether you want the recording date and time on

video.

In the menu screen, select **Time Stamp**, then select **ON** or **Off**.

6. Speed Mark: Choosing speed mark or not during video recording

   In menu screen, select **Speed Mark** and set **ON** or **Off**.

   ※ This function should be under GPS positioning completed.

7. Resolution: to adjust the resolution of video

   In the menu screen, then select **Resolution**, select **1080P/30fps** or **720P/30fps**.

8. LCD Setting: to set up whether to turn on the screen while recording In the menu screen, select **LCD Setting**, then select **ON**, **Turn off After 30 sec.**, **Turn OFF After 3 min.** and **Off**.

9. Voice Record: to set up whether to record sound in to video

   In the menu screen, select **Voice Record**, then select **On** or **Off**.

10. Sound Control: to set up whether to turn on the keypad tone.

    In the menu screen, select **Sound Control**, then use key to select **Off** or **Adjustment**.

11. Automatic Record: to set up auto turn-on and record when engine is started.

    In the menu screen, select **Automatic Record**, then select **ON** or **Off**.

12. Record Interval: to set up the record interval

    In menu screen, select **Record Interval**, then select **2min.** **or** **3 min.** or **5 min.**.

13. Motion Detection: the device will start record 5-10 before motion is detected until the motion is stop.

    In menu screen, select **Motion Detection**, then select **On** or **Off**.

14. Collision Detection: in recording mode, when accident or impact occurs the device will automatically record with emergency record function. The sensitivity of collision can be set.

    In menu screen, select **Collision Detection**, then select **High Sensitivity**, **Medium Sensitivity**, **Low Sensitivity**, or **Off**.

15. Delay Shutdown: the device will still keep recording for a short footage before shutdown

    In menu screen, select **Delay Shutdown**, then select **10 sec.**, or **Off**.

16. Custom Speed Limit: The device warns when the car speed is over the pre-set speed limit.

    In menu screen, select **Custom Speed Limit**, using key to choose 40~120 km/h or **OFF**.

    ※ This function should be under GPS positioning completed.

17. Flexible setting speed limit: Set up a speed margin for your speed limit alert for more flexibility.

    Example: To set up "+5 km/hr", then the device will alert the driver while the speeding reached 55km/h according to the road speed limit is 50km/hr.

    In menu screen **Flexible setting speed limit**, using key to choose +5 km/hr、+10 km/hr、+20 km/hr or **OFF**.

English

18. Language: to set up the language for operational interface.

    In menu screen, select **Language**, then select **Traditional Chinese**, **Simplified Chinese** or **(English) .**

19. File Deleting: to delete the existing file.

    In the menu screen, select **File Deleting** , use 上下鍵及 key and key to select the video type, **Video** , **Emergency**, or **Picture** .After select the video type you will see the videos list, use to select the video that you want to delete, and then press to choose **OK**. After confirm you can choose either to **Delete One** or **Delete All**, press again to confirm, press key to return to the previous page.

20. Format: Format memory card (Micro SD).

    In the menu screen, select **Format**, select **No** or **Yes**, select **Yes** to format your memory card. Please backup important data before formatting your card.

21. Default: Reset all the setting to factory default.

    In the menu screen, select **Default**, select **No** or **Yes**, select **Yes** to reset all the setting to the factory defaults.

22. Firmware version information: to show the firmware version

Memory card (Micro SD) PC connection instruction

1. With a USB cable connection

   Abee V51 can be connected to a PC via USB cable. When connected, the PC will detect a removable device. Open Windows Explorer to browse files in the V51 memory card.(You can see Abee V51 shows USB connecting… while using USB cable to connect to PC.)

2. With a card reader

   Remove the memory card after turning off the device. Insert the memory card in a PC card reader. Your PC will detect a removable device. Open Windows Explorer to browse the files on the V51 memory card.

3. Memory Card (Micro SD)content description:

   There are two file folders of memory card including “EMER” and “DCIM”. The files of general recording & picture are saved in “100MEDIA” out of “DCIM”; the files of emergency recording are saved in “EMER” which can be copied to computer according to the demand.

   ※ The file will be moved from “100MEDIA” to “EMER” completely for protecting it without being overwritten. If the video file is not coherent in the “100MEDIA”, please go to “EMER” for getting the completed one.

DVR Player: Installation, operational, file playback

1. Operating System requirement:
   CPU: Intel Core 2 Duo E6600 or AMD Phenom X3 8850 or above
   RAM: 1G or above
   Operating System: Windows XP or above
2. Installation:
   Execute “Setup.exe” from enclosed CD for installing Abee DVR Player. Afterward the Abee DVR Player can be used.
3. Software interface description:

A. Window style and file playback display area: Combination, break up the displayed window and file playback route.

B. Image display area: Displays the current playback image.

C. G-Sensor display area: Show G-sensor information of current video. You can drag the mouse to the video position where you want to see.

D. Direction, speed display area: Show driving direction, speed and located coordinate.

E. GPS display area: Show the log tracking of video section. (The log tracking will be showed by dotted line without GPS signal such as in tunnel.)

F. File section list: Show the selected location of all video section lists.

G. Video operation and window switch on/ off area: Control videos and window switch on/ off.

Buttons instructions:

A. Window style and file playback display area:

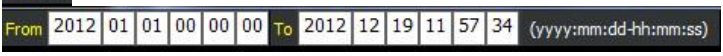
Combination all of individual window.

Break up the combined window

F. File section list:

Select the video folder.

Search files



Choose the range of recording time.

Folder and file list

The list of file searching

Screening list (Duplication is acceptable)

Delete the selected screening list.

G. Video operation and window switch on/off area:

Video footage and broadcast time / volume control and mute

Video control bar: Repeat button / Stop / Previous / Play and Stop / Next / Picture / File play in full-screen.

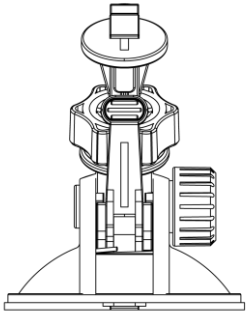
Functional switch on/ off: G-Sensor / Direction & Speed / GPS / File list

Specifications

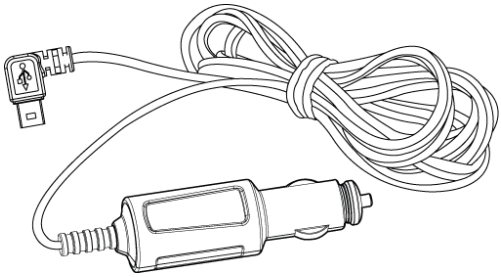
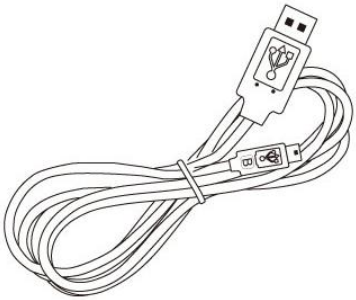
Display	2.4” TFT LCD color screen
Image sensor	BSI CMOS image sensors
Image processor	Ambarella high-speed processor chip
Lens	128°(D) wide angle lens with 6G + IR construction
Lens focus	F 1.9
GPS Module	U-blox 7 satellite receiving module 25x25mm ceramic antenna patch
Video Resolution	Full HD 1920×1080 (30fps) / HD 1280×720 (30fps)
Video Compression/ Format	H.264 / MOV
Loop recording	2mins /3mins / 5mins interval, auto loop recording
Power supply	Cigar car charger INPUT:12V~24V ; OUTPUT:DC5V/1A Built-in high-temperature resistance lithium polymer battery
External Memory	Micro SD (8 GB-32 GB), SDHC Class 6 or upper
LED indicator	2 colors indicator (Green: Power on; Red: Record in process)
USB	USB 2.0
Operating Temperature	0°C~60°C
Storage Temperature	-20°C~80°C
Certification	BSMI / CE / FCC / RoHS
Dimension	6.8(L) x 6.2(W) x 3.65(H)cm
Weight	~ 90 g

Accessories

Bracket



Car Charger



USB Cable