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# SAFETY REMINDING

This product is not waterproof. Do not expose it to rain or moisture.

This product is intended for use in a motor vehicle. Don't install the device where it will block the driver's view of the road or side mirrors. Do not install it where it will interfere with airbag deployment

Pay attention to the road! Don't operate or focus on any device while driving.

Be sure the camera lens is kept clean and there is nothing blocking it.

Don't leave the device in direct sunlight or where temperatures could go above 140° F (60° C) for a long period of time.

## FEATURES

- Support Dual Camera Recording (Rear camera is an optional)
- SONY Exmor Sensor
- Plug and Play
- FHD 1080P @ 60fps
- 155° wide angle
- 3" LCD screen size
- G-Sensor with Collision Detection
- F/1.8 Lens
- Loop Recording
- Built-in Microphone
- Record to Micro SD card
- Parking Assist Mode
- Drivers' Safety Functions, including LDWS, FCWS, Headlight Reminder and Driver Fatigue Reminder
- Built-in GPS
- GPS Location Recording
- Speed Cam Alert
- Dedicated PC Software (including DVR player and G-Sensor Display)

## WHAT'S IN THE BOX

Camera/Recorder

Car Adapter

Windshield Mount

Users' Manual

# CONTROLS & INDICATORS



ITEM	FUNCTION
USB Port	Connect the device to the power source or PC.
Menu	Access the Menu.
UP (▲)	<ul style="list-style-type: none"> <li>● In Menu: Moves selection up in the list.</li> <li>● In Playback Mode: Selects the previous files.</li> <li>● In Standby Mode: Takes a snapshot of the current image.</li> <li>● While Recording: (1) Press to take a snapshot of the current image. (2) Press and hold to add a GPS position to the list of manual added position.</li> </ul>
DOWN (▼)	<ul style="list-style-type: none"> <li>● In Menu: Select next item in the list.</li> <li>● In Playback Mode:</li> </ul>

	<p>Selects the next files.</p> <ul style="list-style-type: none"> <li>● In Standby Mode: Access <i>File Management</i> menu.</li> <li>● While Recording: Stop recording.</li> </ul>
Recording/OK (⊙)	<ul style="list-style-type: none"> <li>● In Menu: Press to accept selection.</li> <li>● In Playback Mode: Pause and unpause video replay.</li> <li>● In Standby Mode: Press to start recording.</li> <li>● While Recording: (1) Enter into Emergency recording. (2) Press and hold to calibrate LDWS.</li> <li>● While viewing snapshot: Press to zoom.</li> </ul>
MicroSD Card Slot	Insert MicroSD card here to record video files.
Power	Push the bar above the MicroSD Card Slot to close the slot and switch on the device at the same time.
Rear Camera Switch	Press the switch to switch the image on the screen between PIP, front image and rear image.

## V71G INSTALLATION & SETUP

### INSTALLING V71G

#### *Installation Safety Warnings*

*Failure to comply with the following warnings could result in an accident or collision, resulting in death or serious injury.*

1. Do not obstruct the driver's view or the operation of the vehicle itself.

2. Do not place it unsecured on the dashboard or in front/above an airbag.
3. Do not mount the camera where it will become a distraction if it becomes loose.
4. Do not attempt to operate the camera while driving. If you need to access the device to change setting, etc., pull off the road in a safe manner to do so.
5. Some country or state laws prohibit drivers from mounting anything on the windshield, or restrict mounting to specific areas of the windshield. It is the user's responsibility to mount the device in compliance with local laws.

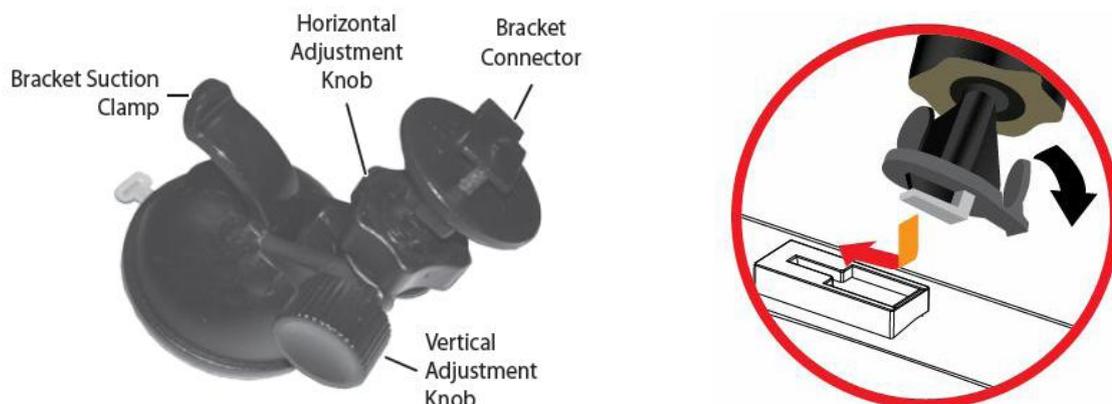
### ***Installation Considerations***

1. Install the device in the area around the rear view mirror.
2. Be sure the device is installed where the windshield wipers can clear the windshield in front of the lens.
3. Do not install on colored or heavily tinted windshield. The coloring effect may affect recording quality.
4. Clean the windshield area where you plan to install the bracket. Be sure it is clear of dust or dirt.

### ***Installation Procedure***

1. Insert MicroSD card into device.
2. Format MicroSD card. (Menu/File Management/Format)
3. Slide the bracket connector into the bracket slot on the camera until you hear it click in place.

4. Lift the suction clamp on the bracket. Place the bracket's suction cup on the windshield and press down on the suction clamp to secure the bracket.



5. Two knobs adjust the camera's position. Loosen the top knob on the side of the bracket to adjust the camera's vertical position. Loosen the bottom knob to adjust the camera's horizontal position.

### ***Remove the Bracket***

To remove the bracket from the windshield, release the suction cup, hold the camera securely, and lift the suction clamp.

### ***Connect to Power***

1. Connect the car adapter's USB plug to the device's USB port.
2. Connect the cigarette lighter adapter plug to the vehicle's cigarette lighter port.
3. The device turns on. Red light indicates the device being recording, while the green light indicates the device in standby mode.

### **NOTE**

In certain models of cars, the cigarette lighter keeps providing power even when the engine is off. Be sure to remove the car charger or

disconnect the device when leaving the vehicle to prevent draining the vehicle battery. Check your vehicle's owner's manual to determine if this applies to your vehicle.

## INITIAL SETUP

### ***Language Setting***

Follow these procedures if you need to change the language on your device.

1. Press **M** (Menu) to access the Menu system.
2. Press ▼ to scroll to *System Setting* if necessary and then press **OK**.
3. Press ▼ to scroll to *Language* then press **OK**.
4. Press ▲/▼ to scroll to the desired language and press **OK** to select it.
5. Press **M** to leave that Menu page.

### ***Set Date and Time***

This device receives date and time information from the GPS satellite if the time zone setting (UTC) is NOT set to OFF. If the UTC is set to OFF, the device will then look for a manually-set date and time. Set the date and time through *System Setting/Date Time*.

### ***Set Automatic Recording***

Activate the Automatic Recording function to have the device start recording when the vehicle's engine is turned on. Activate the function before using the device.

1. Press **M** to access the Menu system.

2. Press ▼ to scroll to *Video Settings* and press **OK** .
3. Scroll to *Auto Record* and press **OK** .
4. Scroll to *On* and press **OK** .
5. Press **M** to leave that Menu page.

## SCREEN INFORMATION

### *Basic Screen Information*

The following image describes the areas and icons seen on the recording screen. The 4 icons on the bottom of the screen correspond to the 4 keys on the device.



Nr.	ITEM	DESCRIPTION
1	Menu	After stopping recording, press this to access Menu.
2	Snapshot	(1) Press to take a snapshot of the current image. (2) Press and hold to add a GPS position to

		the list of manual added position.
3	Stop	Press ▼ to stop recording.
4	Emergency Recording	Press OK to start emergency recording.
5	Duration	Mark the recording duration.
6	Custom Speed Limit	Show the custom speed limit (set by the user).
7	Resolution	Mark the resolution of the video.
8	Microphone	Show if the microphone is active.
9	GPS	Indicate if GPS is active and the signal strength.
10	Power Source/Battery	Show if the device using power source or built-in battery.
11	Current Speed	Show the current speed
12	Date, Time and Model	Current date, time and model (from left to right).

### **Rear Camera Screen Switch**

V71G supports rear camera recording. Please purchase rear camera (model No. H21) and connect to V71G to record the image in back of the vehicle. The device records both front and rear image at the same time.



To view the rear image on V71G screen, please press the Rear Camera Switch to switch the image on the screen.

1. PIP (Picture-in-picture) image is the preset when H21 (Rear Camera) is connected.



2. Press Rear Camera Switch to switch the screen from PIP to front camera image only.



3. Press Rear Camera Switch again to switch the screen from front camera image only to rear camera image only.



4. Press Rear Camera Switch again to switch the screen from rear camera image only to PIP.

# OPERATION

## USING THE MENUS

Press **M** to access the Menu system. Use **▲** and **▼** to scroll through the selections and press **OK** to accept that selection.

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### SYSTEM SETTING

<b>Date Time</b>	Adjust the device's date/time
<b>Screen Setting</b>	Set when the screen goes into Sleep mode.
<b>Voice</b>	Adjust notification volume and turns voice record ON or OFF.
<b>Language</b>	Set the language shown on the device.
<b>Default Setting</b>	Return the device to default setting.

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### GPS SETUP

<b>Satellite Setting</b>	<ul style="list-style-type: none"><li>• Adjusts the time zone.</li><li>• Turn Time Sync off by setting time zone to OFF (device receives date and time information from manual entry).</li></ul>
<b>Camera Alert</b>	Adjust speed alert notification style (Tone, Voice, or Off).
<b>Speed Unit</b>	Set speed measurement to miles per hour or kilometers per hour.
<b>DST</b>	Turn Daylight Saving Time ON or OFF.
<b>Current Speed Display</b>	Turn on to show current speed on LCD screen.
<b>Over Speed Alert Tolerance</b>	Turn on to activate Over Speed Alert Tolerance.
<b>My Locations</b>	Add/delete speed camera points.
<b>Over Speed Alert Management</b>	Turn on to activate the sound alert when driving over certain speed.

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### VIDEO SETTING

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<b>Image Size</b>	Choose recording resolution.
<b>Auto Record</b>	If set to On, automatic recording starts when the engine turns on.
<b>Record Time</b>	Select 2/3/5-minute recording interval for circular recording purposes.
<b>Date Stamp</b>	Turn time stamp in files On or Off.
<b>WDR</b>	Choose to turn on or off WDR function.

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### FUNCTION SETTING

<b>Collision Detection</b>	Adjust G-Sensor sensitivity. When the device in normal recording mode, if a collision occurs at the minimum G-Sensor level set, then the device begins recording and tags that recording as an emergency file. (If the device is already recording, it will tag that video fragment as an emergency file.)
<b>Parking Mode</b>	When the vehicle is parked and Parking mode is set to either Motion Detection or Collision Recording, the device monitors motion or collision. When recording an event, it will include 5-10 seconds prior to the event on the saved file and record for 15 seconds.
<b>LDWS</b>	Switching this function on, the device would use sound and message alerts if the distance between the front vehicle is too close.
<b>FCWS</b>	Switching this function on, the device would use sound and message alerts if it detects the vehicle astray from the traffic lane.
<b>Headlight Reminder</b>	Switching this function on, the device would use sound and message alerts if it detects low light environment (like tunnels, undergoes, rainy days or at the night) and the driver hasn't switched on the headlight.
<b>Driver Fatigue Reminder</b>	Switching this function on, the device would use sound and message alerts to remind the driver taking a brief rest when the recording lasts 1 hour. After that, the alert would be triggered

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	again every 30 minutes if the device isn't shutdown or the vehicle still runs.
<b>EV</b>	Set the EV value.
<b>Delay Shutdown</b>	Delays shutdown after the vehicle turns off for 10 seconds if turned ON.
<b>Frequency Setting</b>	Set frequency to either 50Hz or 60Hz.

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### TPMS

<b>Setting</b>	<ul style="list-style-type: none"> <li>• Set tire pressure and temperature unit for front and rear wheel, and the position of each measuring system as well.</li> <li>• Provide Learning Mode.</li> </ul>
<b>Tire Pressure Value</b>	Show the current tire pressure.

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### FILE MANAGEMENT

<b>Playback</b>	Play recorded videos and display snapshots.
<b>File Delete</b>	Delete recorded videos and snapshots.
<b>Format</b>	Erase all files in memory card and format this memory card.
<b>Version</b>	Display firmware version.

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## BASIC RECORDING OPERATION

### *Automatic/Manual Recording*

You can set the device to start recording when the vehicle's engine turns on, or you can turn off that function and begin record manually. Go through the Menu system (*Menu/Video Settings/Auto Record*) to turn this function ON or OFF.

### *Emergency Recording*

At any given time, you may come across a situation such as an accident where you want to start recording. Press to start emergency recording if you are already recording. (Press twice if you are not already recording.) The device saves emergency files in the microSD card's Video folder with

the filename starts with “S”. The folder only holds 10 emergency files, regardless of the file size. If there are 10 emergency files saved, any new emergency file records over the oldest emergency files.

### ***Collision Detection***

You can determine how strong a collision needs to be for automatic collision recording to start. Set the G-Sensor level in *Menu/Function Setting/Collision Detection*. The device saves the currently recording file to the Emergency folder as an emergency file.

Collision Detection applies to vehicles that are moving. It does not apply to vehicles in Parking Mode, where the vehicle’s engine is turned off and Parking Mode is active.

### ***Parking Mode***

Parking Mode lets you set recording parameters for a parked car (*Menu/Function Setting/Parking Mode*). The Parking Mode menu provides 3 options:

- Off. Turn off Parking Mode and no recordings will be triggered.
- Parking Monitor. Select this to allow collision recording for the parked vehicle. Files are saved as video files in the Video folder.
- Motion Detection. Select this to allow motion detection for the parked vehicle. Files are saved as video files in the Video folder. After the vehicle engine stops (turns off), the device begins recording at that point regardless of motion is detected. Recording stops after about 10 seconds and the file becomes a reference to motion detection.

## **PLAY VIDEOS**

### ***View on the Device***

Play back video files and view photos through *Menu/File*

*Management/Playback*. The screen displays 2 folders: Video and Photo.

The Video folder contains video images you've taken. Emergency files are stored separately from normal video files with the filename starts with "S" and are only copied over when there are already 10 emergency files stored in the Video folder.

When you select a photo and the image displays on the screen, press **OK** to zoom up to 3 times.

## GPS

This feature provides the GPS location where the device is. As the vehicle moves, that position is continuously updated. When GPS is turned on,  displays.

### ***Red Light/Speed Cam Alert***

The DC4GT has a built-in database containing red light and speed camera locations (points). As you approach one of these points, the device alerts you according to how the alert notification is set (*Menu/GPS Setup/Camera Alert*).

You may also manually add new red light and speed camera locations. While recording, press and hold **▲** to add the current GPS location to the database.

You may also delete the manually added points. Delete all manually-added points from the database through *Menu/GPS Setup/My Location*.

## MAINTENANCE

Use common sense when caring for your device. Be sure the lens remains clean and free of debris.

Do not leave the camera exposed to high temperatures. Remove it and store out of the heat.

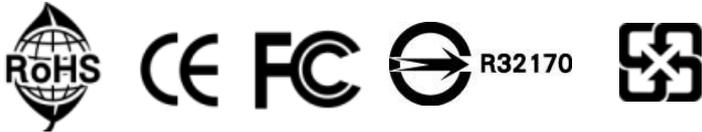
Because the camera has an internal Lithium Polymer battery, contact your local waste disposal department to dispose of it according to local laws and regulations.

Clear out unwanted recordings to free up space in your MicroSD card through *Menu/File Management/Delete*.

## SPECIFICATION

<b>Abee V71G FHD Car Cam Recorder</b>	
<b>Image Processor</b>	New Generation WDR Low Noise Image Processing Chip
<b>Image Sensor</b>	SONY Exmor CMOS Sensor
<b>GPS</b>	USA Satellite Receiving Mode 25mmx25mm Ceramics Antenna
<b>Lens</b>	155° 6G All-glass with IR Filter
<b>Aperture</b>	F/1.8
<b>LCD Screen</b>	3" TFT Capacitive Color Screen
<b>Resolution</b>	1080P / 60 & 30 fps 720P / 60 fps
<b>Video File Format</b>	.MOV
<b>Compression</b>	H.264
<b>Loop Recording</b>	2/3/5 Minutes Loop Recording
<b>Power Supply</b>	Car cigarette charger (INPUT: 12V~24V; OUTPUT: DC5V/1A) Built-in high temperature resistant lithium polymer battery
<b>USB Format</b>	USB2.0
<b>External</b>	Micro SD Card (8GB~32GB, SDHC Class 10 or above)

<b>Memory</b>	
<b>LED Indicator</b>	Green: On Red: Recording
<b>International Certification</b>	BSMI/FCC/CE/RoHS
<b>Operation Temperature</b>	-20~60°C
<b>Storage Temperature</b>	-20~80°C
<b>Dimension</b>	8.2 (L)* 3.6 (W)* 5.2 (H) cm
<b>Weight</b>	Around 90g



**NOTE:**

All specifications are subject to change. Abee reserves the right to modify the specification without prior notice to customer.