

# **ASKEY Connected DashCAM**

**CDR6013-WG** 

**User Manual** 

Nov. 2017 ASKEY Computer Corp.



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### 1.Introduction

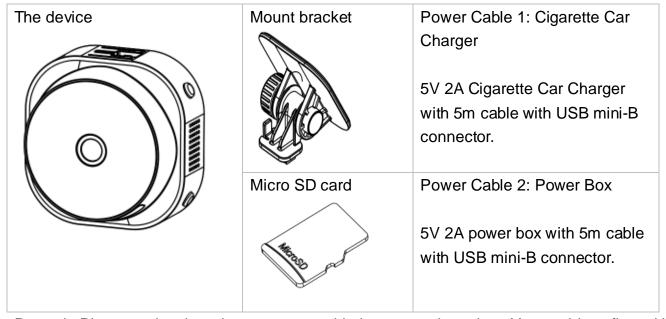
Thank you for purchasing this advanced Connected Car Cam. This device is specifically designed for the functions descript as the following.

### 1.1 Features

- Full HD 1080p single camera driving recorder
- 1920x1080p video recording
- Wide view angel FOV 120°(H)
- 2 Mega Pixel CMOS Sensor
- 2inch LED backlight TFT panel, QVGA 320 x 240 pixel color screen
- Built in LTE/3G, Wi-Fi, Bluetooth and GPS function
- 3.7V, 750 mAh rechargeable Li-ion battery non removable battery
- Seamless looping recording
- Support up to 128GB Class 10 Micro SDHC (Suggest to use Micro SDHC 95 MB/s R, 90 MB/s W)

### 1.1.1 Package Contents

The package contains the following items. In case there is any missing or damaged item, contact your dealer immediately.



Remark: Please notice there is one power cable in your package box. You could confirm with



# 1.2 Device Overview



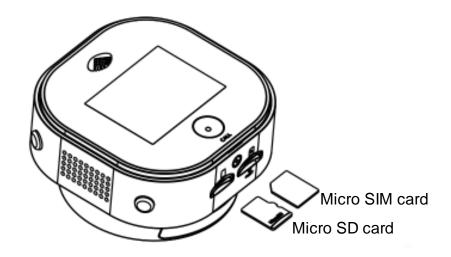
No. Description		No. Description	
1	Mount Bracket	11	Up Button
2	Knob/Hinge	12	Enter/OK Button
3	Power Button	13	Down Button
4	Main Device	14	Microphone-2
5	Camera	15	Call Button
6	Speaker	16	SIM Card Slot
7	Back/Return Button	17	Reset Button
8	Microphone-1	18	Micro SD Card Slot
9	USB port		
10	LED Indicator		



# 1.3 Getting Started

### 1.3.1 Insert Memory Card and SIM Card

Follow the direction indicated as the following to insert the memory card and SIM card. (Please contact with your Operator to get the SIM card.)



## 1.3.2 Install in Vehicles

Please follow the steps to make sure the device is securely locked in place.

- 1. This device shall be installed near the rear view-mirror, at the center of windshield, if possible, for optimal viewing.
- 2. Mount the device nearby the room mirror. Make sure the camera view area in LCD.
- Position the mount bracket on the windshield, and then press to paste on the windshield.Make sure the base is securely locked in place.
- 4. Loosen the knob swivel to adjust tilt angle. Locking knob, and confirm that the device is securely locked in place.

### 1.4 Power the Device On / Off

Use only the attached car charger for activating the device and charging the built-in battery.

1. Connect one end of car charger connector to USB port on the device.

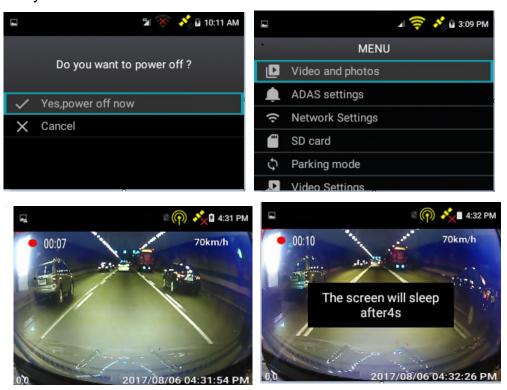


- 2. Plug the other end of the car charger to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the device automatically turns on.
- Switch key from ACC to OFF position, then device will enter sleep mode and start consuming battery power.

### 1.4.1 Auto Power On/Off

Once the vehicle engine is started, the device automatically turns on and starts recording (must have SD card).

When the vehicle engine stopped, the device will turn to sleep mode after 5 seconds, in sleep mode, the device gets the power by battery. Turn device off, long pressing the Power button around 3 seconds, a power off confirm dialog shows, pressing Enter button to power off the device completely.



# 1.4.2 Manually Power Off

Press the power button around 2-3 seconds to power off, a dialog will be shown and press Enter button to confirm it.



### 1.4.3 Reset the Device

In case the device fails to function normally due to unknown causes, click the reset key on the bottom of the device.

### 1.4.4 Set the Date / Time

Date and Time will be automatically updated after registered the LTE/3G network, connected to Wi-Fi or receive the GPS signal

### 1.4.5 LED Indicator

LED Indicator Status	Description
Red light keeps flashing	Power on and recording
Red light on	Sleep mode

Call Button LED Status	Description
Red light keeps flashing	Connecting to service center and
	waiting answer the eCall.
Red light on	Answered the eCall

## 1.4.6 Menu Operation

Press Enter button to enter menu setting, press Up / Down button to select sub menu, then press Enter button OK to enter the setting, press Up / Down button to select the option, and then press Enter button OK confirm. After completing the setting, press Back button to exit menu setting.



# 2. Using the Driving Recorder

## 2.1 Recording Videos

Before starting recording, please insert a SD card into the SD card slot. With car charger connected the device will automatically turn on and start recording, the video recording icon shown on the left top of the screen and a red color LED blinks. The recorded files are saved on the SD card. To stop recording, press Enter button again.

### 2.1.1 The Recoding Screen

Icons on the recording screen.



Status icon	What it means	
<b>0</b> 0:00	Video is recorded	
9	Show the battery level and charging status	
00:04	Recording time counter	
No sound when recording video		
70km/h	70km/h Tell you the current vehicle speed	
ADAS is disabled		
12:43 PM	Display the current time	
Satellite signal is acquired		
**	No satellite signal is acquired	
الايخ	GPS location information is acquired	



<b></b>	Connected to Wi-Fi network		
Wi-Fi hotspot allow other device sharing your 3G/LTE			
	connection.		
16.	Connected to 3G/LTE network and show the signal		
*54	strength.		

### 2.1.2 Voice On/Off when recording

Enter the Video Setting to enable Voice when recording Off / On.

### 2.1.3 Take Picture

During recording, press Back button can capture the current scenery as a picture.

### 2.1.4 Screenshot

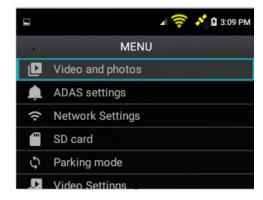
Press Power and Down button at the same time can capture the current screen as a picture. The screen pictures are saved on the SD card, you can get these under path \\sdcard\pictures\screenshots when you insert the SD card into your PC.

# 2.2 Playback the Videos and Photos

### 2.2.1 Normal Videos





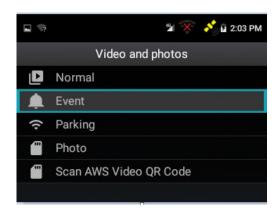


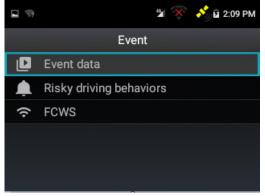


### 2.2.2 Event Videos

The Event video record is triggered and activates in the case of a car collision accident which is determined by the gravitational acceleration.

When collision is detected, this device will save the recorded video clips under \sdcard \DVR\event\event\_data\_video and upload them to cloud forcibly.





### 2.2.3 Risky Driving Videos

Risking driving is indicated the behaviors of hard-brake or hard-turn. The video record of risking driving is activated and determined according to the variation of Angular velocity via gyroscope and g-sensor.

When risking driving is detected, this device will save the recorded video clips under \\\sdcard\DVR\event\rdb\_video and upload them to cloud forcibly.



# 2.3 Network Settings

The device built-in LTE/3G, Wi-Fi and GPS module, please insert a SIM card before power on, when LTE/3G or GPS signal has been received, the recorded video can be tracked at this time.



## 2.3.1 LTE and 3G Frequency Bands

Please make sure the LTE and 3G frequency bands with your operator in local before you insert the SIM card into the device.

#### Support LTE Band

EU/JP/TW/APAC requirement:

2 (1900 MHz)

4(1700 MHz)

5(850 MHz)

17(700 MHz)

26(850 MHz)

#### Support 3G Bands:

WCDMA 2(1900 MHz), 4(1700 MHz), 5(850 MHz)

#### Peak Downlink/Uplink

HSPA+ DL: 42Mbps, UL: 5.76Mbps, LTE Cat4 DL: 150Mbps, UL: 50Mbps



### 2.3.2 Wi-Fi

The device support IEEE802.11 b/g/n, 2.4GHz Wi-Fi connections. Press Enter button to select Network Setting menu to activate the Wi-Fi hotspot function. Insert a SIM card before you activate the Wi-Fi hotspot function. (Please notice you will be charged by local operator if you activate it).

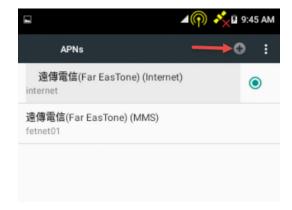


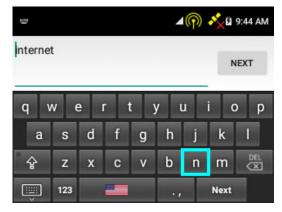
### 2.3.3 Bluetooth

The device support Bluetooth 4.1, the profile can support SPP. Press Enter button to select Network Setting menu to activate the Bluetooth function. Make sure the profile can be connected to your mobile device before you activate it.

## 2.3.4 APN Setting

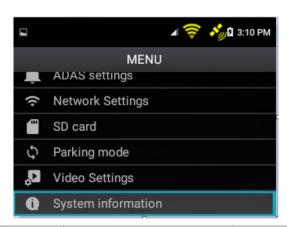
Press Enter button to select Network Setting menu, enter LTE to select "Access Point Names", press " + " icon then use on-screen keypad to input the APN.







# 2.4 Menu Options



Main Menu		Description	Available Option
Videos and	Normal	Playback recorded	Review / Change to Event
photo		movies and view	folder / Delete
	Event	capture photos.	Event data / Risky driving
			behaviors / FCWS: Review /
			Delete
0.000	Parking		Review / Delete
	Photo		Review / Change to Event /
			Delete
ADAS Setting	LDWS	Off – No warning tone	Off
		when lane departure.	☑ -On
6414		On – Turns on the	
		LDWS, there will be	
		warning when depart	
		from the lane.	
	FCWS	Off – No warning tone	Off
		when collision occur.	☑ -On
		On – Turns of the	
		FCWS, there will be	
		warning before a	
		possible collision	
		when the vehicle in	
		front of you.	
Network	Operator Name	Display the Operator	
Settings		name after insert an	
		available SIM card.	



Wi-Fi Set the Wi-Fi connection.  LTE Set the LTE connection and APN.  Wi-Fi Hotspot Set the Wi-Fi as an AP router.  Bluetooth Set the Bluetooth connection.  SD card Format Delete movies and photos saved on the SD card.  USB port Mini USB Only for charger, Can't data transmission  Parking mode Set the parking mode on / off and the sensitivity.  Video Setting Recording time Recording time Prefile.  Resolution Set the video resolution.  Resolution Set the display brightness and on / off when recording.  Information Setting the location on Only Off  Parking mode Resolution Setting the location on Only Off Deleteration on Only Only Only Only Only Only Only Onl			Commodica	our our obriooiz ooor manaa
connection and APN.  Wi-Fi Hotspot Set the Wi-Fi as an AP router.  Bluetooth Set the Bluetooth Connection.  SD card Format Delete movies and photos saved on the SD card.  USB port Mini USB Only for charger, Can't data transmission  Parking mode Set the parking mode on / off and the sensitivity.  Video Setting  Recording time  Resolution Set the video resolution.  Resolution  Set the video resolution.  Point Name(APN) On / Off Set up ID/Password On / Off Set up ID/Password On / Off On / Off  Auto detection On / Off / Auto detection  Iminutes / 3minutes / 5minutes  Recording time  Peccording time  1 minutes / 3minute  Resolution  Resolution  Set the video resolution.  Brightness / On / Off		Wi-Fi		
Bluetooth  Set the Bluetooth connection.  SD card  Format  Delete movies and photos saved on the SD card.  USB port  Mini USB  Only for charger, Can't data transmission  Parking mode on / off and the sensitivity.  Video Setting  Recording time  Resolution  Set the video resolution.  Set the display brightness and on / off when recording.  Bluetooth  Set the Bluetooth On / Off  Yes / Cancel  Yes / Cancel  On / Off / Auto detection  On / Off / Auto detection  Iminutes / 3minutes / 5minutes  Recording time  1080p(FHD) / 720p(HD)  Resolution  Brightness / On / Off  Brightness / On / Off  Brightness / On / Off		LTE		
Bluetooth Set the Bluetooth connection.  SD card Format Delete movies and photos saved on the SD card.  USB port Mini USB Only for charger, Can't data transmission  Parking mode Set the parking mode on / off and the sensitivity.  Video Setting Recording time Select to limit recording time pre file.  Resolution Set the video resolution.  Resolution Set the display brightness and on / off when recording.  Bluetooth Connection.  Yes / Cancel  On / Off / Auto detection  On / Off / Auto detection  1minutes / 3minutes / 5minutes  **Recording time**  1minutes / 3minutes / 3minutes  **Recording time**  1080p(FHD) / 720p(HD)  Resolution  Parking mode on / off when recording.  Brightness / On / Off		Wi-Fi Hotspot		
photos saved on the SD card.  USB port  Mini USB  Only for charger, Can't data transmission  Parking mode  Set the parking mode on / off and the sensitivity.  Video Setting  Recording time  Select to limit recording time pre file.  Timinutes / 3minutes / 5minutes recording time pre file.  Resolution  Set the video resolution.  Set the video resolution.  Display  Set the display brightness and on / off when recording.		Bluetooth		-
Can't data transmission  Parking mode  Set the parking mode on / off and the sensitivity.  Video Setting  Recording time  Select to limit recording time pre file.  Resolution  Set the video resolution.  Set the video resolution.  Display  Set the display brightness and on / off when recording.  Brightness / On / Off	SD card	Format	photos saved on the	Yes / Cancel
on / off and the sensitivity.  Video Setting  Recording time  Select to limit recording time pre file.  Resolution  Set the video resolution.  Set the display brightness and on / off when recording.  Provided Setting  Iminutes / 3minutes / 5minutes  1 minutes / 3minutes / 3minutes / 3minutes / 3minutes / 3minutes / 3minute  1 minute	USB port	Mini USB	Can't data	
recording time pre file.  Resolution  Set the video resolution.  Set the display brightness and on / off when recording.  Recording time  Recording time  Recording time  1 minute  3 minute  1080p(FHD) / 720p(HD)  Resolution  Page 1223 AM  Resolution  Resolution  Page 1223 AM  Resolution  Resolution  Page 1223 AM  Resolution  Pa	Parking mode		on / off and the	On / Off / Auto detection
resolution.  Resolution  720p  1080p  □  Display  Set the display brightness and on / off when recording.	Video Setting	Recording time	recording time pre	Recording time  1 minute  3 minute
brightness and on / off when recording.		Resolution		Resolution 12:23 AM
Information Setting the location		Display	brightness and on /	Brightness / On / Off
		Information	Setting the location	-Off



		Connected	Cal Calli CDR0012 OSEI Mallu
		data on the video recorded.	☑ -On
	Voice when	Set the voice	On / Off
	recording	recording on / off	
		when video	
		recording.	
System	Manufacture	Display the	
setting		manufacture.	
	Model name	Display the model	
		name for the device.	
	IMEI	Display the IMEI for	
		the device.	
	System Update	Select to update the	Check current version / Version
		firmware if you	update
		receive the	
		notification from the	
		service center.	
	Serial number	Display the serial	
	(Marie 11)	number of the device.	
	Certificate ID	Display the	For more Regulatory
		Certificate ID of the	compliance and marks
		device.	(E-labels) about
			NCC/FCC/JRF/JPA, please
	840		refer to your device via the
		[4])	following steps: System
			setting → Certificate.
	Volume	Select the volume of	≅ (😭 💉 🖟 9:52 AM
		the device and the	System information
		voice(TTS) alert.	System update
			Seriel number
			WiFi MAC
			Certificate
			Volume



			🖆 🍘 🥕 🖟 9:56 AM
		System inf	ormation
		System Volume	
		TTS Volume	
Version	Display the current		
	firmware version of		
	the device.		

### **2.5 ADAS**

### 2.5.1 Auto Calibration

When the ADAS (containing the sub functions of LDW, FCW) is enabled, the ADAS engine will take around 1-2 minutes to calibrate its parameters of hood level, horizontal level and horizontal Pan automatically. With these 3 parameters obtained accurately such that the ADAS can further work correctly. Three short lines will appear on the screen once the calibration procedure is finished. Please notice ADAS doesn't work if the parameters are not acquired.



## 2.5.2 FCWS (Front Collision Warning System)

When FCWS is enabled after satellite positioning, the system calculates distances between the front vehicle and our vehicle and the headway time, the device will has voice alert and display an alarm screen before a possible collision when the vehicle in front of you.



#### Notice

FCWS turned on, a green square wireframe with distance is displayed on the screen from the moment the front vehicle is detected, and as long as the headway is greater than the predefined headway time threshold.



#### Warning

FCWS turned on, a red square wireframe with distance is displayed on the screen with voice alert, when the headway is less than 2.5 second.



## 2.5.3 LDWS (Lane Departure Waring System)

When LDWS is enabled after satellite positioning, the device will has voice alert and display an alarm screen if vehicle begin to depart from the original lane. Press Enter button to select the LDWS setting (the default setting is Off).

Turn on LDWS function, the recorded movie will give a voice alert and a red line is displayed on the screen if the vehicle depart from the original lane.





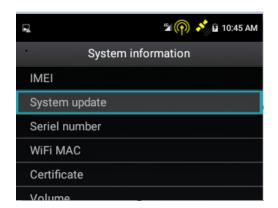


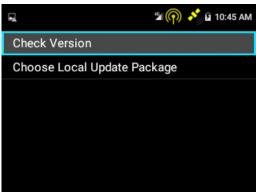
## 2.6 Firmware Upgrade

Check the device has already connected to the vehicle power before you activate the firmware upgrade service. While the firmware upgrading, do not remove or stop the vehicle engine. This information may be important for service and support communications.

### 2.6.1 Firmware Upgrade via OTA

Enter the System Upgrade and select Check Version to check and upgrade the firmware version. Make sure the device already connected to Internet before proceed firmware upgrading. Please notice you will be charged by local operator if you activate it.





# 2.7 Emergency Call

When detect car crash, the device will trigger voice call to service center automatically, and you will receive the phone call from service center who will communication with you. (Please notice you will be charged by local operator if activate it).



# 2.8 Technical Specifications

Model Name	CDR6013-WG
Support OS	Android 6.0
Display	2inch LED backlight TFT panel, QVGA 320 x 240 pixel, brightness 200 nits,
Dimensions	76mm (L) x 76mm (W) x 40.7mm (H)
Weight	Around 150g
Battery Pack & Life	3.7V, 750mAh(non-removable lithium-ion battery), target 30minutes @
	100nits, 720p, playback
Processor	Qualcomm MSM8956 (Dual core AMR A72 1.8GHz and Quad core ARM
	A53 1.6GHz)
Graphics	Adreno 510 @ 600MHz
Main Memory	On board 2GB LPDDR3 and 8GB eMMC
Sensors	1. G-Sensor(Accelerometer)
	2. Gyroscope
	3. GPS
WLAN	802.11 b/g/n
	Wi-Fi Antenna*1
Bluetooth	BT 4.1., Profile: SDP, HFP, HSP, PAN, HID, SPP, FMP, GATT
Modem	WCDMA HSPA+/FDD LTE and TD-LTE
SIM card slot	Support, single Micro SIM(3FF)
GPS	GPS, AGPS & Glonass
Interface	1 x micro USB
	1 x Card reader (Micro-SD),
Camera	Single camera: 2MP with 1080p/720p video recording, FOV 120°(H)
Audio	Built-in high quality speaker x 1
Microphone	Analog Microphone x2
LED Status	Dual color LED x1(power button), red LED x2(call button)
Buttons	5 function keys(power, back, enter, up and down)
	Reset and eCall button
AC adapter	Output: 5V 2A ;9V .15ACigarette Car Charger
	Input: 12V/24V DC
	Cable length: 5m cable with USB mini-B connector
Environment	Operation Temperature: -20 to 60 °C.
	Storage Temperature: -20 to 85 °C
	Humidity: 95%(60 °C)



# 3. Appendix

# 3.1. Package

Planning.



# 3.2. Memory Card Capacity

Capacity	Normal	Event	Log	Photo	Capacity for
	recording	recording			Firmware Update
4GB	1.6GB	1.12GB	0.16GB	0.32GB	0.8GB
8GB	3.6GB	2.52GB	0.36GB	0.72GB	0.8GB
16GB	7.6GB	5.32GB	0.76GB	1.52GB	0.8GB
32GB	15.6GB	10.92GB	1.56GB	3.12GB	0.8GB

The oldest files will be overwritten if the SD card fills up.

# 4. Troubleshooting

Contact us if you have questions need some help or cannot use the device normally. Telephone: E-mail: <a href="mailto:sales@askey.com.tw">sales@askey.com.tw</a>

Manufactured by Askey Computer Corporation 10F, No.119, Jiankang Road., Zhonghe Dist., New Taipei City 23585, Taiwan



# **5.** FCC warning statement

This radio transmitter FCCID: H8NCDR6013 has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

#### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/ TV technician for help.

#### **CAUTION:**

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

#### RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.