

USER MANUAL



drive HD™

Record your Ride



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The Driver Awareness Alert display feature is subject to US Patent Numbers 8,842,004 and 8,970,422 and additional pending US Patent Applications.

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INTRODUCTION

Congratulations! You've made a smart choice by purchasing a Drive HD Dash Cam from Cobra. Drive HD Dash Cams provide peace of mind by continuously recording the road ahead of you in beautiful 1080P Full HD video. With cutting edge features, phenomenal video quality, and an industry-leading focus on user experience, Drive HD Dash Cams are the best solution to *Record Your Ride*. This User Manual describes the simple steps for mounting, setting up, and using your dash camera.

CAMERA FEATURES

1080P Full HD

Records the road ahead in resolutions up to 1080P Full HD featuring excellent image quality, nighttime performance, and advanced dynamic range

2.0" LCD Screen

Large LCD Display with video playback directly on the device or on your TV or computer

140° Viewing Angle

Ultra wide-angle view gives you a full view of the road without any edge distortion

Continuous Loop Recording

Footage is stored in 3, 5, or 10 minute clips. When the memory card fills up, the camera automatically deletes the oldest segment to make room for new ones.

Emergency Recording - Automatic or Manual

If you don't want a clip to be overwritten, simply click the Emergency Recording button and the clip will be protected. Clips are automatically protected if an impact is detected.

G-Sensor

3-axis accelerometer senses sudden accelerations, stops, and collisions and automatically protects footage surrounding the incident.

Parking Mode

While in Parking mode, Drive HD cameras will only record video when motion is detected. This feature is helpful for vehicles that have an always-on accessory port or units that are hardwired to power.

Dynamic Range

Optimized to automatically maximize video clarity in daylight or nighttime conditions

Simple Installation

Mount the unit on the windshield, apply power, and forget about it. Drive HD cameras will automatically start recording without the need for complex configuration.

Ready to Use

Includes an 8GB MicroSD memory card, vehicle power adapter, and suction cup windshield mount so the unit is ready to use out-of-the-box

ADDITIONAL FEATURES

Parking Mode

SnapShot

Action Cam Mode

Built-in Microphone & Speaker

Auto-Record and Auto-Power Off

Screen Protector

Customizable Watermark

Built-in Lithium Ion Battery

Supports 9 Languages:

- English
- Spanish
- French
- German
- Dutch
- Portuguese
- Russian
- Simplified Chinese
- Traditional Chinese

PRODUCT SERVICE AND SUPPORT

For any questions about operating or installing this new Cobra product, PLEASE CONTACT COBRA FIRST...do not return this product to the retail store. The contact information for Cobra will vary depending on the country in which you purchased and utilize the product. For the latest contact information, please go to www.cobra.com/support. For products purchased in the U.S.A. you may also call 1-800-262-7212 (1-800-COBRA-12).

For products purchased in the U.S.A., if your product should require factory service, please go to www.cobra.com/support and follow the instructions for returning your product to the Cobra Factory Service Department.

YOUR DEVICE

WHAT'S IN THE BOX



CDR 835 or CDR 855 BT Dash Cam



12V Vehicle Power Adapter



8GB Micro SD Card (pre-installed in dash cam)



USB to micro USB Cable (for connection to computer)



Quick Release Mount



Quick Start Guide



Suction Cup Windshield Mount

CONTROLS AND CONNECTIONS



The functions of Buttons 1-4 are indicated by the icon directly above each button and change depending on the state of the unit.

INSTALLATION

1

MOUNT

Screw the included suction cup into the mount. Slide the mount into the camera and press the lever to secure the unit to your vehicle's windshield.

Suction Cup Windshield Mount

To install the **Suction Cup Windshield Mount** peel the plastic film off of the suction cup. Press the suction cup **FIRMLY** onto the windshield. Depending on the suction cup style either twist the locking ring or flip the locking lever 90° to secure the suction cup in place. The suction cup can be moved freely by disengaging and re-engaging the locking lever. The quick release mount slides in and out of the mounting slot.

2

POWER

Plug one end of the supplied 12V Vehicle Power Adapter into your vehicle's cigarette lighter, and the other end into the micro USB port. The unit should power on automatically. If it does not, **PRESS AND HOLD** the **Power** button until the display activates. When the power button is used to power on the unit the user must manually start recording.



BASIC OPERATION

QUICK START

Press the **Record/Pause** button to stop and start recording.

Press the **Emergency Recording** button to lock the current file so that it won't be recorded over.

POWERING ON THE DEVICE

The device will power on automatically when plugged in and can also be powered by PRESSING AND HOLDING the **On/Off** button until the display activates.

NAVIGATING MENUS

When in a menu, press the **Arrow Keys** to navigate to the menu item you want to select or change and then press **Enter** to select or change the option associated with that item. Pressing **Back** at any time will exit the menu without saving changes.

VOLUME ADJUST

Briefly press the Power/Volume button to enter the volume menu. There are 5 volume settings and mute (no Volume)

THE SD MEMORY CARD

The device comes with a pre-installed 8 GB micro SD memory card. To remove the SD card, press firmly on the SD card to push it further into the slot. There will be a click and the SD card will pop out on release. Extract the card and replace as necessary by inserting a card into the slot and pressing until it locks in place.

Note: This device supports Class IV or higher micro SD cards with a capacity up to 32GB.

CHARGING THE DEVICE

You can charge the device with the included car charger or with a micro USB cable.

The battery in this unit is intended to operate the unit after power loss due to an accident or crash. Note that, while recording may continue, the device is not intended for long-term recording on battery power.

SOFTKEY FUNCTIONS

The 4 Buttons on the device allow you control multiple functions depending on the current status of the unit. These buttons allow for the following softkey functions:

	Button 1	Button 2	Button 3	Button 4
Recording Functions	Menu	Playback Mode	SnapShot	Record
	Screen On/Off	Microphone On/Off		Pause
Settings Menu Functions	Back	Arrow	Arrow	Select/Enter
Playback Menu Functions	Back	Lock/Unlock File	Delete File	Play File
		Previous File	Play/Pause	Next File
		Fast Rewind (press and hold)		Fast Forward (press and hold)
Other		Yes	No	
iRadar Functions (CDR855BT only)	Cancel Alert	N/A	True Alert	False Alert

OPERATION MODES

Video Mode

Video/Photo Playback Mode

Photo Playback mode

VIDEO MODE

Video Mode is the default mode for the device, and allows you to easily record HD video of the road ahead of you.

When first powered on, the device will start in video mode and automatically begin recording. To start/stop recording press the **Record/Pause** button.

Continuous Loop Recording: Once the memory card is full, the camera will continuously overwrite the oldest footage recorded. To protect a clip so that it will not be overwritten, press the **Emergency Record** button. The emergency record icon will show on the screen. Files can also be locked from the playback menu in **Video Playback Mode**.

G-Sensor: The G-Sensor is an accelerometer that can detect an impact caused by an accident. If the G-Sensor is triggered, the current video segment will automatically be locked so that it is not overwritten by continuous loop recording.

Note: Setting proper G-Sensor sensitivity is important for proper operation of the product. If the G-Sensor is too sensitive it will unnecessarily lock files and can result in the memory card filling up quickly. If it's not sensitive enough, then it may not lock a file in the event of a legitimate collision.

Shortcuts: While in video mode, you can perform these functions

- **Menu** enters the settings menu to change the video settings, general settings, iRadar app settings (CDR 855 BT only), and language settings.
Note: This option is only available when the camera is not recording.
- **Screen on/off** turns the LCD screen off. The device will continue recording while the screen is blank.
- **Playback** enters the playback menu to review previous recordings and photos. Note: this menu can only be selected when the camera is not recording.
- **Microphone Toggle** turns the microphone on or off. The current setting is shown at the top of the video screen.
- **Snapshot** takes a snapshot/photo. The unit does not have to be recording in order to take a snapshot
- **Record/Pause** starts or pauses a recording

VIDEO SETTINGS

Video resolution:

This setting allows you to set one of three available video recording resolutions: Higher resolutions will give you a sharper image, but take up more memory on the card.

The available resolutions are:

1080P Full HD	1920x1080 30 Frames per Second
720P HD 60fps	1280x720 60 Frames per Second
720P HD 30fps	1280x720 30 Frames per Second

	1080P Full HD	720P HD 60fps	720P HD 30fps	
Capacity	4 GB	1hr 18min	1hr 5min	2hr 8min
	8 GB	2hr 37min	2hr 10min	4hr 16min
	16 GB	5hr 14min	4hr 20min	8hr 33min
	32 GB	10hr 27min	8hr 40min	17hr 6min

Loop clip time:

This setting allows you to control the duration of each individual movie clip on the device. Movie clips can be set to durations of 3 minutes, 5 minutes, or 10 minutes or Action Cam Mode. Turning the loop clip time to Action Cam Mode lets the device record one uninterrupted movie clip, but disables continuous loop recording.

G-Sensor:

The Drive HD Dash Cam includes a built in G-Sensor which allows the device to determine when the car has been in a collision. If it detects a collision, it automatically locks the recording being made at the time of the accident. You can use this setting to set the sensitivity of the G-Sensor from 1-3 or turn it off. Level 1 is the easiest to activate the G-sensor and the G-Sensor may lock files due to smaller bumps like potholes and the SD card may fill up with protected files. Level 3 is the hardest to activate the G-sensor.

Parking Mode:

Enabling this setting will allow the device to enter parking mode if no motion is detected for 5 or 10 minutes while the camera is recording. The recording will restart when motion is detected. The default setting is 10 minutes.

Cobra Watermark, Date/Time Stamp, & Time Stamp Format:

These menu options change the watermark & time stamp that will appear on the saved video files. Photo files do not contain a watermark.

GENERAL SETTINGS

Volume:

Allows you to raise and lower the volume of sound playback on the device.

Date/Time:

Allows you to set the date and time on the device and for use with the timestamp.

Screen Saver:

Allows you to set a duration after which the device's display will go dark. This setting is useful to avoid distracted driving and having a bright LED screen when driving at night. Select 1 minute or 3 minutes.

Beep Sound:

Turns the sound on or off for each time a button is pressed. Note: this only effects normal button presses. Alerts to the user of errors, or iRadar sounds (CDR855BT only) are not effected by this setting.

Format SD Card:

Allows you to format the inserted SD Card. **NOTE: This action will permanently delete all data on the card.**

Restore Defaults:

Resets the device to factory settings. Note that restoring defaults will NOT erase data on your memory card.

Firmware Version:

Displays the device software version.

LANGUAGE SETTING

Allows you to set the language for the device from among the 9 supported languages.

iRADAR SETTINGS (CDR 855 BT only)

Bluetooth:

Turns Bluetooth on/off so the camera can/cannot connect to a smartphone running iRadar

iRadar Alerts:

Alerts from the iRadar app will not be displayed on the CDR 855 BT. The CDR 855 BT will still communicate with a connected smartphone running iRadar to receive date/time and GPS information.

Speed Units:

Changes the units between mph and km/h

VIDEO AND PHOTO PLAYBACK MODE

This device stores video and pictures on its removable SD Card Memory. Playback mode will allow you to review the saved video and photos and play back the video with sound. To select a video or photo for playback navigate with the arrows and select with **Enter** key. The **Back** key will return you to the previous screen.

When viewing a video it can be locked, unlocked, or deleted.

During video playback pressing the >> or << keys will advance to the next/previous video. Pressing and holding these keys will playback the video in fast forward or fast rewind mode

Photos can be viewed and deleted. It is not necessary to lock photo files – they are not overwritten by continuous loop recording.

iRadar® APP CONNECTION

The CDR 855 BT uses a Bluetooth® Smart connection to the Cobra iRadar® smartphone app. Smartphone integration allows for:

1. Embedding GPS, Speed, Heading, and G-Sensor Information into video footage recorded on the dash cam.
2. Displaying iRadar driver awareness alerts including:



iRadar® APP CONNECTION

Download the app from the App Store or Google Play.



For iPhone® 4s and later with Bluetooth® Smart:

- Power on your dash cam and be sure that Bluetooth is enabled
- Make sure your iPhone's Bluetooth is ON. The dash cam will NOT APPEAR in the iPhone's Bluetooth Settings Menu.
- Start the Cobra iRadar App. Press the Menu button in the upper left of the app and select Devices. Follow the onscreen instructions to complete the pairing and connection.
- When complete, a "connected" chime will sound and  will turn white on the dash cam display.

For Android™ Devices with Bluetooth® Smart:

- Power on your dash cam.
- Enter your Android device's Bluetooth Settings Menu.
- Scan for Devices and select Drive HD to pair.
- Enter the Cobra iRadar App. A "connected" chime will sound, and  will turn white on the dash cam display.

CONNECTING TO A COMPUTER OR TV

This device can connect to a computer or television via the USB or HDMI ports located on the side of the unit.



Use the USB port on the side of the device to connect the device to your computer. When connected you will be given two options: **Connect to Computer** or **Power Only**.

CONNECTING TO A COMPUTER OR TV

Select **Connect to Computer** to access the device via your computer.

By default, your device connects to your computer in Mass Storage mode, and acts like a flash drive. Videos can be viewed with any standard video player that supports .mov files.

Select **Power Only** to turn the unit on for normal operation

Use the HDMI Port to connect the device to a TV or monitor using a mini HDMI cable (not included).

FIRMWARE UPDATE INSTRUCTIONS

For optimal performance, check www.cobra.com periodically for software updates.

- Connect the Dash Cam to your computer using the included USB to Micro-USB cable.
- Power on the Dash Cam and select **Connect to Computer** using the record/select button.
- The camera will be listed as **DRIVEHD** in Windows Explorer.
- Download the update file from www.cobra.com. **Note:** You do not need to double click or open this file on the computer.
- Copy/paste or drag the update file (SD_CarDV.bin) into the root directory of the **DRIVEHD** folder. **Note:** the file name must be SD_CarDV.bin in order to update the firmware.
- Wait for the file to transfer and then safely disconnect the Dash Cam from the computer. The Dash Cam will turn off.
- Plug the Micro USB cord into the Micro USB port. The Dash Cam will turn on and automatically boot into the Firmware Update Menu.
- Use the Up/Down arrows to highlight **YES** and then select it with the Select Button. The unit will update for 10-15 seconds and then turn off.
- Power the unit on. You will again be automatically booted into the Firmware Update Menu. You can now select **DELETE** to delete the update file off of your unit. Alternatively, you can connect to your computer and manually delete the SD_CarDV.bin file from the Micro SD card. This will prevent the unit from booting into the Firmware Update Menu in future power cycles. Your Dash Cam is now updated.

CAMERA SPECIFICATIONS

Visual Angle.....	140 degrees
Sensor.....	5 MP CMOS (OV2710)
Video resolution.....	1080P 1920x1080 30 fps
.....	720P 1280x720 30 fps
.....	720P 1280x720 60 fps
.....	480P 680x480 30 fps
Video Format.....	MPEG4/MOV
Picture Format.....	JPEG
White Balance.....	Auto
Color Effect.....	Auto
Continuous Loop Recording.....	Supported
Motion Detection.....	Supported
Date and Time Stamp.....	Supported
Media Supported.....	SD Card - 8GB Included (32GB Max)
Sound Recording.....	Synchronous video and sound record
USB Interface.....	USB 2.0
USB Mass Storage.....	Supported
Display Screen.....	2.7" LCD
Battery.....	Rechargeable Lithium-Ion



1080P Full HD Dash Cam



Loop Recording



MicroSD Card Included



Wide Angle Lens



G-Sensor

TROUBLESHOOTING

If your unit does not appear to be operating properly, please follow these troubleshooting steps:

- Make sure the power cord is properly connected.
- Make sure the socket of your vehicle's cigarette lighter is clean and free of corrosion.
- Make sure the power cord's cigarette lighter adapter is firmly seated in your cigarette lighter, and the Status LED is on.
- Check the power cord fuse. (Unscrew the ribbed end cap of the cigarette lighter adapter and examine the fuse. If required, replace it with a 2-amp fuse only.)

For detailed and up-to-date FAQ's, please visit www.cobra.com/support/faqs.

TRADEMARK ACKNOWLEDGEMENT

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Cobra Electronics Corporation™ is a trademark of Cobra Electronics Corporation, USA.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or HDMI registered trademarks of HDMI licensing LLC in the United States and other countries.

NOTE: This device complies with part 15 of 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.

CAUTION: Modifications or parts not approved by Cobra Electronics Corporation may violate FCC Rules and void authority to operate this equipment. This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

CAN ICES-3B/NMB-3B.

DISPOSAL OF ELECTRONICS EQUIPMENT: This product may contain hazardous substances that could impact health and the environment if not disposed of properly.

The crossed out wheeled bin symbol indicates that the product should not be disposed of along with household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment.

If you need more information on the collection, reuse and recycling systems, please contact your local civic office or the shop where it was originally purchased.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

