

ventra

Innovative solutions in vehicle and mobile video technology

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ventra

# VDR-130 Series Dual Camera Vehicle Video Recorder with WiFi

## User Guide



### Models:

- VDR-130 = 16GB SD Card
- VDR-130NC = No SD card included
- VDR-130BT = 32GB Card Included
- VDR-130XT = 64GB SD Card Included

Apps available 08/20



Please read and follow all instructions and features before use. Save for future reference.

Manual Ver 05 20

## Warning – Safety Precaution

- Please read these safety instructions thoroughly before operating the product and keep this manual for future reference.
- Please be aware that micro SD memory card have limited product life expectancy and will eventually degrade in time - causing errors in recordings / data corruption.
- It is highly recommended to format and check the integrity of the Micro SD card on a regular basis. Micro SD memory card related problems are not under warranty and the manufacturer or the supplier is not responsible for data loss or missing recordings.
- Install the device in a manner that does not obstruct the driver's view of the front or sides of the vehicle, or interfere with the safety of operating the vehicle.
- When exposed to direct sunlight for extended period of time, the equipment may become hot. Please exercise caution when touching the equipment.
- Do not operate, adjust or view the VDR-130 while driving or when vehicle is in motion as it may lead to accidents and or injuries.
- Do not place the device insecurely on the dashboard, or place the device in front of or above an airbag.
- Altering and disassembling of the product may result in a fire or electric shock. Disassembling the product will void the warranty. Inquire with Ventra in the event the product needs repair.

## Warning – Safety Precaution

- Please comply with all local, state and federal driving and traffic regulations.
- To reduce the risk of fire or electric shock, do not expose this unit to water, liquid, rain or moisture.
- Disconnect and replace cable if wire is stripped or damaged.
- In the event of an impact or accident, please check to ensure the equipment is properly secured. Inspect the mounting bracket and adhesive for any signs of damage.
- Do not put foreign material into card insertion slot of the terminal, it may cause product damage.
- The product is designed to be installed inside the vehicle. Any damage caused by placing the device outside the vehicle, or damage due to misuse or handling of the product will void the warranty.
- The warranty does not cover claims related to mishandling, tampering and / or disassembling of the product.

### **WARNING– IMPORTANT NOTICE**

#### **Built-In Shock Sensor**

- **The built-in shock sensor may not recognize slight shock or minor collision as an event. Different sensitivity levels may be adjusted to match the level of sensitivity.**

## Windshield Mounted Device Legal Notice

Please check and comply with ALL local, state and federal laws and or regulations regarding windshield mounted devices. Some state laws prohibit drivers from using suction mounts on their windshield when operating motor vehicles. Other state laws allow the suction mount to be mounted to be located only in specific locations on the windshield. Numerous states have enacted restrictions against placing objects on the windshield in locations that obstruct the driver's vision.

**IT IS THE USER'S RESPONSIBILITY TO MOUNT VENTRA EQUIPMENT IN COMPLIANCE WITH ALL PPLICABLE LAWS AND ORDINCANCE.**

## Audio and Video Recording Legal Notice

Certain local, state and federal laws may prohibit recording of audio and or video in vehicles or public area, or without knowledge and or consent, please check and comply with ALL local, state and federal laws and regulations.

Certain local, state and federal laws may require signage or display that indicate recording of audio and or video in vehicles or public area. Please check and comply with ALL local, state and federal laws and regulations.

**IT IS THE USER'S RESPONSIBILITY TO USE VENTRA EQUIPMENT IN COMPLIANCE WITH ALL PPLICABLE LAWS AND ORDINCANCE.**

Use of this product other than its intended purpose is strictly prohibited.

Ventra Technology, Inc. does not assume any responsibility for any fines, violation, penalties or damages that may be incurred as a result of the use of the product.

Ventra Technology, Inc. is not responsible for any direct, indirect, incidental or consequential damages, arising out of use, misuse or inability to use of our products.

## VDR-130 Specifications

Item	Description
Imagesensor	1/3" CMOS sensor
Effective pixels	1920 x 1080
Storage media	Max. up to 64GB class 10 / U1 or above Micro SDHC
LCD display	2" LCD
Lens	Wide Angle Fixed Focus lens F/2.0, f=2.6mm
Focus range	0.5m~Infinity
Video (Format: MOV)	<b>VDR-130 Main Camera</b> 1080P (1920 x 1080) 30fps
Resolution	<b>EX13-OMIR 2<sup>nd</sup> camera</b> VGA (640 x 480) 30fps
Still image picture Format: JPEG	3 MP (2048 x 1536) 2 MP (1920 x 1080) 1.3MP (1280 x 960) VGA (640 x 480)
Shutter (Electronic shutter)	Auto:1/2 ~1/2000 sec.
G-Sensor	3-Axis G-Force sensor
ISO	Auto
WhiteBalance	Auto
Microphone	Yes
Speaker	Yes
Connection	Mini USB
Battery	Built-in 150mAH Li-ion rechargeable (This battery is NOT replaceable)
Operating Temperature	32° ~ 120° F
Operating Humidity	20 ~ 70%RH
Storage Temperature	-2° ~ 155° F
Dimensions	65 x 70 x 27.5 mm
Weight	Approx. 80g (without memory card)

## 1 Introduction

Ventra VDR-130 is an all-in-one high performance Dual Camera Vehicle HD Recorder. The plug and play setup makes this system the ideal choice for both passenger and commercial vehicle.

### 1.1 Features

- \* Wide Dynamic Range Imaging (WDR)
- \* 1080P HD video on main camera, VGA on EX6-OMIR
- \* 120 Degree Wide Angle Lens
- \* Built-in G-sensor
- \* Built-in WiFi
- \* Motion Detection

#### Models:

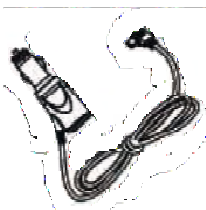
**VDR-130** = 16GB SD Card  
**VDR-130NC** = No SD card included  
**VDR-130BT** = 32GB Card Included  
**VDR-130XT** = 64GB SD Card Included

### Package Contents

#### VDR-130 Main Camera



#### USB Car Charger



#### EX13-OMIR 2<sup>nd</sup> Camera



#### MicroSD Card



**Note:** VDR-130NC does NOT include SD card

## 1.3 Product Overview

### VDR-130 Main Camera



Number	ITEM	Number	ITEM
1	Menu / Mode	7	AV Out = EX6-OMIR camera input connection
2	Up selection	8	Micro SD card slot
3	Power button	9	Adjustable angle lens
4	Down selection	10	LCD screen
5	Enter / OK	11	Status LED
6	Power / USB connection	12	Mount bracket
<b>EX6-OMIR (2<sup>nd</sup> Camera)</b>			
13	LED for night vision	14	Mount bracket

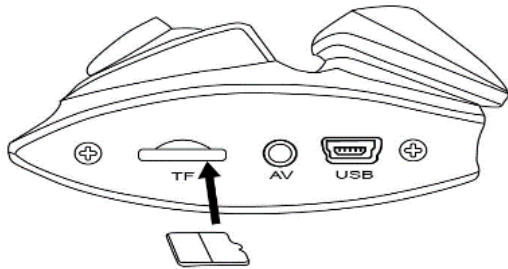
## 2 Getting Started

### 2.1 Inserting the Memory Card

Insert the memory card with the gold contacts facing the back of the VDR (LCD side) . Gently push the memory card in place until it clicks

#### To remove the memory card

Power off the system first, then gently push to eject the memory card out of the slot.



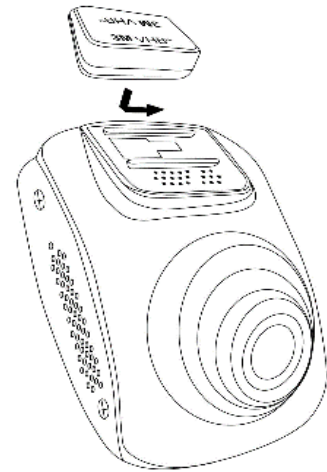
#### Important Note:

1. Do not remove or insert the memory card when the camera is turned on. This will damage the memory card.
2. It is recommended to use Class 10/U1 or above micro SD card.
3. Please format the micro SD card prior to the initial use.
4. Only purchase SD cards from authorized reseller to ensure quality and performance
5. SD cards require periodic maintenance (Format) to ensure optimal performance. SD cards can be formatted in the VDR-130.
6. Formatting SD card will erase all data, please ensure important files are backed up prior to format

## 2.2 Installing in Vehicle

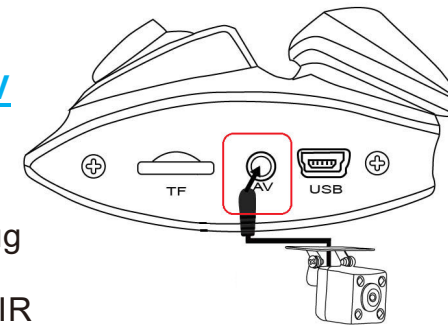
### 2.2.1 VDR-130 Main Camera

1. Attach the bracket to the VDR main camera. Slide it into the bracket holder until click.
2. Select the location to mount the VDR. Ideally in the center section of the windshield, below the rear view mirror.
3. Before installing the bracket, please use alcohol to clean the windshield. Wait for it to dry and press camera mount to windshield



### 2.2.1 EX13-OMIR (2<sup>nd</sup> camera)

1. The EX13-OMIR can be mounted in the interior or exterior of vehicle.
2. Clean the surface to remove dirty before mounting the OMIR camera
3. Using provide cable, connect the earphone jack into the **AV port** on the VDR-130
4. VDR-130 will POWER the EX13-OMIR via earphone plug
5. Do NOT power the EX13-OMIR separately via ext. power source



## 2.2.2 Adjust the camera angle position

### 1. VDR-130 main camera

Camera angle can be tilted up / down as needed

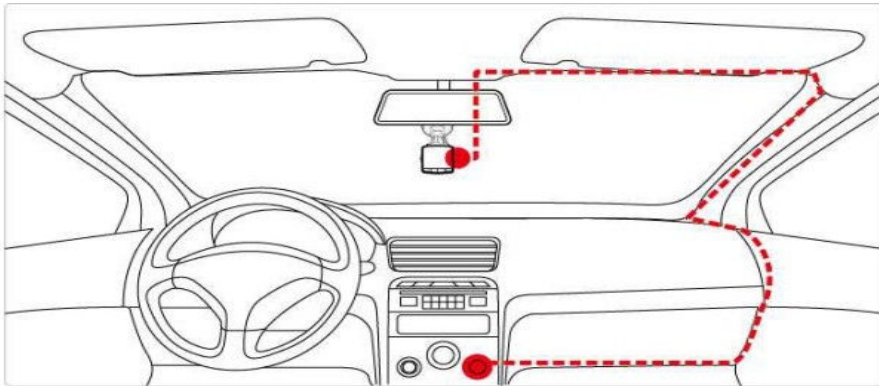


### 1. EX13-OMIR 2<sup>nd</sup> camera

Camera angle can be tilted up / down as needed.  
Tighten screw to fix angle

## 2.3 Connecting Power

Use only the supplied car adapter to power up the camera and charge the built-in battery.



1. Connect one end of the car adapter to the USB connector of the VDR-130.

USB port input: DC 5V / 1A.

2. Plug the other end of the car charger to the cigarette lighter socket of the vehicle. Once the vehicle engine is started, the camera automatically turns on. Car charger input:



### **Important Note:**

1. Use the VDR with the supplied charger only. Do NOT use other power chargers to avoid damage to camera or battery.
2. Do NOT modify the power cable or connection method as outlined in this manual. Altering the power cable will void all warranty.


**Note:** On certain vehicles, the cigarette lighters are constantly ON (Hot) so the VDR recording will continue even when the vehicle is powered off. If this happens, please manually turn off the camera or remove the car adapter from the cigarette lighter to prevent battery drain



## 2.4 Powering the VDR-130 On / Off

### 2.4.1.1 Power On / Recording

VDR will automatically power and record on when vehicle powers on. Red blinking dot displayed on the top left corner of screen

To turn off the VDR power, press the  button in the center of camera



### 2.4.1.2 Stop Video Recording

To stop recording, press the **OK** button once. Red blinking dot will stop.

To resume recording press **OK** button again




### 2.4.1.2 Motion Recording

Motion recording can be enabled in system setting if the VDR is constantly powered by vehicle. VDR will start to record when motion is activated. To stop Motion recording, press OK while VDR is recording in this mode.

**NOTE:** Pressing OK to stop motion recording will disable the feature in system setting. Must re-enable it in the settings menu to activate feature

### 2.4.1.4 Enable / Disable Audio Recording

Press the  arrow button to Enable / Disable audio recording while VDR is recording Video. Microphone icon will display

### 2.4.1.5 Enter Menu Setting Mode

Stop recording by pressing the **OK** button once. Red blinking dot will stop

Press **M** button to enter 1<sup>st</sup> page of setting menu, press **M** again for 2<sup>nd</sup> page of settings

## 3. Settings Menu

Settings 1 - Pg. 1



Settings 1 – Pg. 1 Cont'd



Settings 2 - Pg. 1



Settings 2 – Pg. 1 Cont'd



VDR supports a wide range of setting configuration based on individual preference.

## 3.1 Setting List

### Settings 1

Menu Item	Description	Available option
<b>Video Resolution</b>	Set the video recording resolution EX13-OMIR 2 <sup>nd</sup> camera supports VGA resolution only	1920 X 1080 1280 X 720 848 x 480 WVGA 640 x 480 VGA
<b>Display Mode</b>	Set the camera displayed on the LCD screen	Front Lens Rear Lens Picture in Picture (Front & Rear)
<b>Record Interval</b>	Set the recording duration for each recorded video file segment	Off, 3 Min, 5 Mins, 10 Mins
<b>WDR</b>	Wide Dynamic Range for video	Off / On
<b>EV</b>	Set the exposure compensation	Set exposure level between + 2.0 ~ -2.0
<b>Motion Detection</b>	If Motion Detection is activated, the VDR will automatically trigger recording when the camera detects any motion in front. VDR must be powered on	On / Off
<b>Audio</b>	Enable/Disable voice recording	On/Off
<b>Time Stamp</b>	Enable/Disable the date stamp.	On/Off
<b>Shock Sensor</b>	The built-in shock sensor will detect the level of impact based on the settings. VDR will automatically trigger emergency recording when corresponding level of shock is detected	Off / Low / Medium / High
<b>Rear Camera Mirroring</b>	Adjust the rear camera view between normal and mirror image	On/Off

## 3.1 Setting List

### Settings 2

<b>WiFi</b>	Enable / Disable the WiFi mode. WiFi must be enabled to view the video using Ventra smartphone app  Go to smartphone WiFi setting, find and connect to VDR-130XXXXXX  PW: 12345678a  Connect to VDR-130 WiFi on smartphone, then return to Ventra app	On / Off
<b>Date / Time</b>	Set the date, time and display format	Press ▼ ▲ button to adjust the value, press the OK button to switch the field and confirm
<b>Auto Power Off</b>	Auto power off timer to turn off the VDR	Off / 3 Mins / 5 Mins / 10 Mins
<b>Beep Sound</b>	Beep sound whenever a button is pressed	On / Off
<b>Language</b>	Set the OSD menu language.	English, Français, Español, Português, Deutsch, Italiano, Simplified Chinese, Traditional Chinese, Russian, Japanese, Korean
<b>Frequency</b>		50 Hz / 60 Hz
<b>Screensaver Time</b>	Timer before LCD screen turns off (VDR will remain powered on)	Off, 1 Min, 3 Min, 5 Mins
<b>Ventra VDR-130</b>	Set license plate info to be watermarked on video Default = Ventra VDR-130	Long press M button to enter setup option Once cursor moves to letter, press to change letter Press OK to enter Repeat as needed Long Press M to go to next row When done, long press M to go to OK. Press M to exit menu
<b>Format SD Card (64GB SD card max)</b>	Format and delete all data on SD card Save any important video prior to format	Yes / No
<b>Default</b>	Reset all settings to factory default settings.	Yes /No
<b>Version</b>	Firmware Version	



## 4. Video Playback

### 4.1 Playback directly on VDR-130

Video playback can only be accessed when VDR is NOT recording.

1. To stop recording, press **OK** button
2. Long press (2 seconds) the **M** button twice
3. Navigate the saved video files by pressing ▼ / ▲
4. Press OK to play file
5. Exit playback mode by pressing **M** button

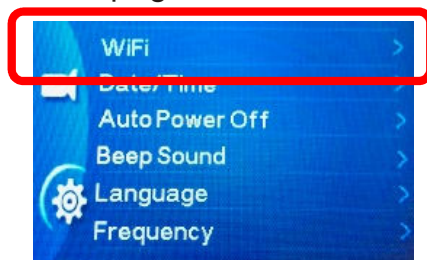


### 4.2 Playback video via VDR App

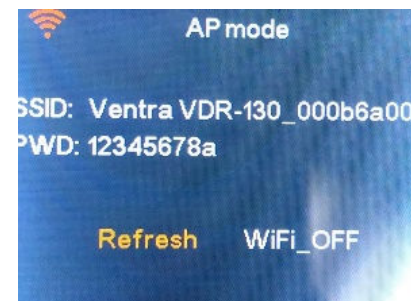
VDR app available on iOS and Google

Video playback can only be accessed when VDR is NOT recording.

1. To stop recording, press **OK** button
2. Press **M** button twice to access 2<sup>nd</sup> page of Settings menu
3. Press ▼ to highlight **WiFi**
4. Press **OK** to select



## 4.2 Playback video via VDR App - Continued



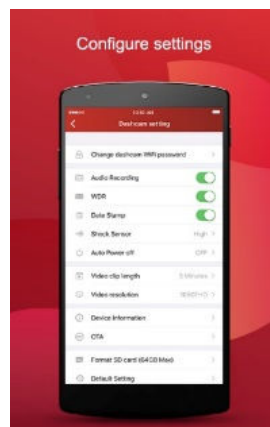
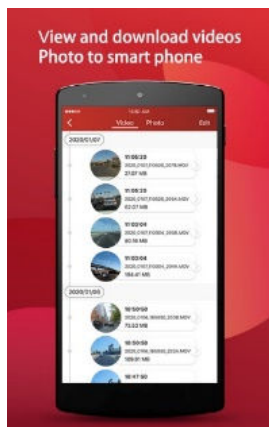
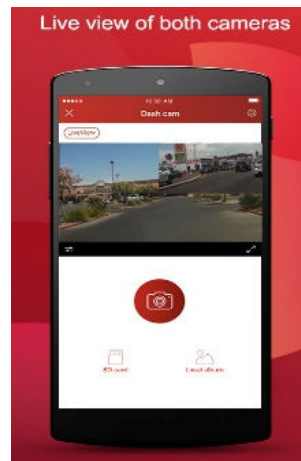
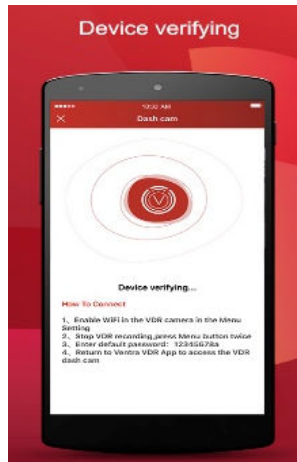
1. Press **ON** to turn on WiFi on VDR
2. See the WiFi SSID VDR130-xxxxxxx

### Go to Smartphone (iPhone or Android)

1. Go to WiFi setting in Smartphone
2. Find SSID VDR-130-xxxxxxxxxx
3. Connect to SSID VDR-130-xxxx
4. PW = **12345678a**
5. Open Ventra VDR app
6. Return to VDR-130 camera, select **Connect**
7. Once connected, can see live view, SD card playback, image playback and setting configuration

## 4.2.1 VDR App

Apps available Aug, 2020



## 5 View Recordings on PC

### 5.1 Using Media Player

VDR-130 videos are saved as MOV files and can be viewed via standard Media Players.

To view recordings:

1. Safely remove the Memory card from the VDR-130 after it has been powered off.
2. Insert Memory card to a computer. A SD card slot or USB SD card is required (Not included)
3. Select the Drive the SD card is located and select the file folder to view .
4. Select the file to view via Media Player.

Name	Date modified	Type	Size
2017-08-10-20-18-04	8/10/2017 6:18 PM	MOV File	20,544 KB
2017-08-10-23-07-43	8/10/2017 11:07 PM	MOV File	20,544 KB
2017-09-10-23-07-52	9/10/2017 11:07 PM	MOV File	20,544 KB
2017-09-11-12-49-31	9/11/2017 12:49 PM	MOV File	20,544 KB
2017-08-11-12-49-35	8/11/2017 12:49 PM	MOV File	20,544 KB
2017-08-11-12-50-02	8/11/2017 12:50 PM	MOV File	104,512 KB
2017-09-11-12-53-03	9/11/2017 12:53 PM	MOV File	104,512 KB
2017-09-11-12-56-08	9/11/2017 12:56 PM	MOV File	104,512 KB
2017-08-11-13-40-54	8/11/2017 1:40 PM	MOV File	184,512 KB
2017-08-11-13-43-55	8/11/2017 1:44 PM	MOV File	184,512 KB
2017-08-11-13-46-55	8/11/2017 1:49 PM	MOV File	104,512 KB
2017-09-11-13-49-55	9/11/2017 1:52 PM	MOV File	104,512 KB
2017-09-11-13-52-55	9/11/2017 1:54 PM	MOV File	123,008 KB
2017-08-11-13-55-08	8/11/2017 1:55 PM	MOV File	61,504 KB
2017-08-12-12-22-27	8/12/2017 12:25 PM	MOV File	104,512 KB
2017-09-12-12-25-28	9/12/2017 12:25 PM	MOV File	102,528 KB
2017-09-12-12-28-17	9/12/2017 12:28 PM	MOV File	20,544 KB

## 5 View Recordings on PC

### 5.1 Using Media Player

VDR-130 videos are saved as MOV files and can be viewed via standard Media Players.



## VENTRA LIMITED WARRANTY

Ventra Technology, Inc. warrants the system against defects in material and workmanship for a period of **one (1) year** from the date of original purchase. During this period, Ventra's liability for any defective product, or any product part, shall be limited to the repair or replacement of the product, at Ventra's sole discretion.

This warranty does not apply to defects or damages resulting from mishandling, accident, abuse, negligence, lightning, water/liquid, power surges, improper interfacing, operation outside of design limits, misapplication, improper repair, or unauthorized modification.

The term "Ventra Product" is limited to the hardware components and required firmware. It **DOES NOT** include software applications or programs, non-Ventra products or peripherals. To the extent permitted by local law, all non-Ventra products or non-Ventra branded peripherals - such as external storage SD card are provided with the respective manufacturer's own warranties directly to you, and are not covered by this Limited Warranty.

To obtain service within the warranty period, please contact Ventra at [tech@ventrainc.com](mailto:tech@ventrainc.com) for assistance. If product repair or replacement is necessary, a Return Merchandise Authorization (RMA) will be issued. The Customer will be solely responsible for shipping charges, insurance and proper packaging to prevent breakage in transit, whether or not the product is covered by this warranty. All shipments of repaired or replaced products by Ventra will be F.O.B. California.

**VENTRA MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF ANY PRODUCT SOLD UNDER THIS CONTRACT. UNDER NO CIRCUMSTANCES SHALL VENTRA BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, INFRINGEMENT OF THIRD PARTY RIGHTS, LOST GOODWILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, DATA LOSS, SYSTEM FAILURE, IMPAIRMENT OF OTHER GOODS, COSTS OF REMOVAL AND REINSTALLATION OF THE SYSTEM, LOSS OF USE, INJURY TO PERSONS OR PROPERTY ARISING OUT OR RELATED TO THE SYSTEM WHETHER BASED ON BREACH OF WARRANTY, BREACH OF CONTRACT, TORT OR OTHERWISE. IN NO EVENT SHALL VENTRA'S LIABILITY EXCEED THE ACTUAL PURCHASE PRICE OF THE SYSTEM WITH RESPECT TO WHICH ANY CLAIM IS MADE.**

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