



RideCam™

**Advanced Driver Assistance System
Camera**

User's Manual



Version 1.0.0

Table of Contents

Glossary Terms.....	2
Legal Disclaimer	3
Trademarks.....	3
Copyright	3
Warnings.....	3
InstallationLocation	3
Tampering.....	3
Introduction	4
Product Specification	4
Interfaces	5
Installation.....	6
What's in the box	6
Installation Instructions	6
Configuration.....	7
Connection.....	7

Glossary Terms

- ADAS: Advanced Driver Assistance System is the solution that assists the vehicle operator in the driving process.
- IP:Internet Protocol is a set of rules governing the format of data sent over the Internet.
- IP Address:Internet Protocol Address, is a numerical label assigned to each device participating in a computer network that uses the Internet Protocol for communication.
- LED:Light Emitting Diode is the light you see on the main body of the camera.
- NTSC:National Television System Committee video standard used in the Americas and Japan.
- PAL:Phase Alternating Line is the video standard used in in Europe, Australia, the Middle East, and Asia.
- USB:Universal Serial Bus is the port on the side of the camera used to supply electric power.
- Wi-Fi: Wireless Fidelity is technology that allows an electronic device to exchange data or connect to the internet without wires or cables.

Legal Disclaimer

Trademarks

All trademarks mentioned in this manual are the sole property of their respective manufacturers.

Copyright

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Warnings

Installation Location

During normal operation surfaces of device and/or accessories may become hot to the touch.

Do not adjust the device while operating heavy equipment.

Excessive shock or dust will damage device.

Tinted or special glass may affect the GPS reception and video recording quality.

Dirt on the lens or windshield may affect the video recording.

It is unlawful in most states, provinces, jurisdictions, etc. for any person(s) to drive a motor vehicle equipped with a television viewer/screen located at any point forward of the back of the driver's seat (or in any location that is visible, directly or indirectly), to the driver while operating the vehicle. This system is designed to be used primarily as a recording device. In any installation where Zone Defense products are used to display television broadcasts or recorded video playback, installation location must adhere to local laws and regulations.

Tampering

To prevent electrical shock, **DONOT OPEN ANY ZONE DEFENSE ELECTRONIC COMPONENTS**. There are potentially harmful voltages inside the components. There are no user serviceable parts inside any of the components of the Zone Defense products. If tampering is detected, the warranty will be considered void.

Introduction

Congratulations on the purchase of your Zone Defense system. Zone Defense is a leader in vehicle observation systems. When properly installed and used, your system is designed to provide you with years of trouble-free operation. This manual contains important information required to properly install the unit. Please read this manual thoroughly before beginning. All Zone Defense products are strictly intended to be installed as a supplement and Zone Defense observation systems and/or products are not intended for use as substitutes for rear-view mirror devices, or for any other standard motor vehicle equipment required to be installed on vehicles by law. Zone Defense products contribute to improving the vehicle operator's field of view, for driver's coaching, accident avoidance, and accident recreation. Our products are not a substitute for proper defensive driving techniques, observance of traffic laws and motor vehicle safety regulations.

Product Specification

Built-in Camera	One channel 1080p AHD CMOS camera
Camera Viewing Angle	Front facing 110° Field Of Vision
Video compression	H.264
Video resolution	1080p / 720p
Video frame rate	NTSC: 1 to 30 FPS configurable PAL: 1 to 25 FPSconfigurable
G-sensor	Built-in 3D acceleration sensor (X, Y, and Z-axis)
Wi-Fi	Built-in Wi-Fi module and antenna
Interface	1×USB 2.0 for power input
Operating Voltage Range	8V DC to 36V DC
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F)
Size	Camera only: 10.54 x 4.4 x 5.16 cm (4.15 x 1.73 x 2.03 in.) Camera with mount: 10.65 x 4.4 x 5.38 cm (4.19 x 1.73 x 2.12 in.)
Weight	Camera only: 0.1kg (0.22 lbs.) With mount: 0.12kg (0.26 lbs.)
Standard Compliance	FCC, CE, RoHs

Table 1

Interfaces



Figure 1

- Mounting Bracket: Mounting bracket will hold the camera to the windshield
- Micro USB Port (not shown): The Micro USB port is used for power input
- Reset button: Used to manually reset the camera during the troubleshooting process
- LED: Will indicate when the camera is powered on
- Lens: The camera that must face forward for proper operation

Installation

What's in the box

- RideCam camera
- Mounting bracket
- Power cable

- ! NOTE: Zone Defense part number R.AVS.RC.V1 uses a USB power cable and contains a dual USB car charger.
- ! NOTE: Zone Defense part number R.AVS.RC.V2 uses an in-line power cable and does not contain a dual USB car charger.

Installation Instructions

1. Ensure camera faces out the front of the windshield and that the field of vision is not obstructed.
2. Remove the cover from the adhesive mount and camera lens.
3. Apply camera to the interior of the windshield in a horizontal direction directly under or in place of the rear-view mirror.
4. Install power cable to camera so as not to obstruct the view out of the windshield.
5. For R.AVS.RC.V1: Connect power cable to USB cigarette lighter adapter. For R.AVS.RC.V2: Connect ground and ignition wires for power.
6. Activate the mobile application using the instructions you received via electronic mail.
7. Once installed, it is not recommended to move the adhesive bracket to another position on a windshield or a rear window.

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Configuration

This section reviews how Tier Three Support will troubleshoot the device. The section is not customer facing and is included in required FCC documentation ONLY.

Connection

1. Power on the RideCam camera.
2. On a Wi-Fi enabled device, connect to the "Wi-Fi AP" access point.
3. If a password is required, the default is 78932100 but a soft reset of the device may be required prior to password entry.
4. Launch a web browser and input the local IP address of the RideCam. This is typically `http://192.168.1.202` but a soft reset of the device may be required to access.
5. Enter the Account name as "Admin" and password as "111111" without the quotation marks. A soft reset of the device may be required to access.

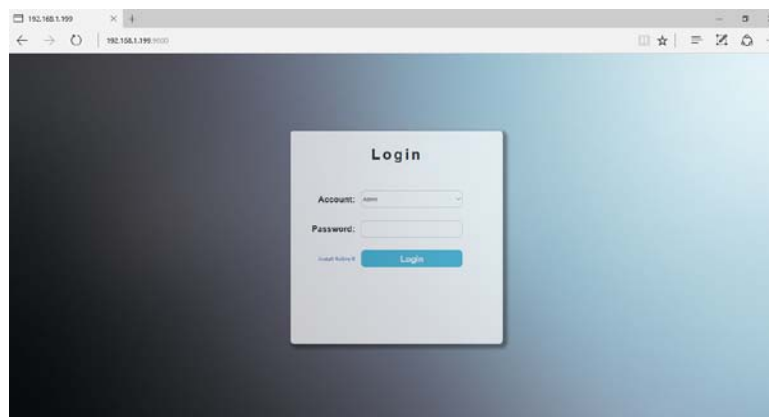


Figure 1

6. In the navigation bar at the top of the screen, click "Configuration" to check the parameters.

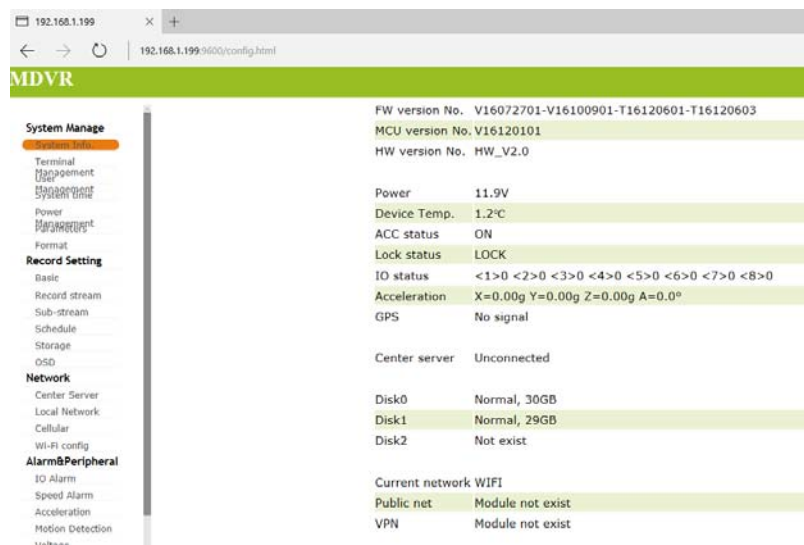


Figure 2

FCC Caution:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.