

Ver-Mac Work Zone Camera Management User's Guide

1	Introduction.....	2
2	Using the Dashcam.....	2
2.1	At the Beginning of the Workzone.....	2
2.2	At the End of the Filmed Workzone.....	3
2.3	Before Coming out of the Vehicle at the Shop	3
3	Installing the Wi-Fi Receiving System.....	4
4	Work Zone Camera Management Page	5
4.1	Adding Cameras	5
4.2	Finding a Video.....	5
4.3	Playing a Video.....	7
5	Troubleshooting.....	8

Version control

Version	Date	Description
1.0	2017-05-	First version
2.0	2017-07	New recording procedure,.
2.1	2017-07	VMCserver 100 LEDs description.
2.2	2017-07	Wiring reviewed
2.3	2017-09	Naming reviewed

1 Introduction

The Ver-Mac Work Zone Camera Management is a system with 3 main components: the Work Zone Management Camera is in the vehicle and films the work zones; the Work Zone Management Base Station is at the fleet's office and collects all the vehicle's camera data to upload it to the server; and the third component is the Work Zone Camera Management web interface. A Work Zone Camera films the work zone on a regular basis. At the end of the day, the vehicle comes back to the shop and needs to transfer the videos.

When the vehicle stops moving, the Work Zone Camera detects it and starts emitting to upload films in the cloud. The WZMC server takes the signal from the Work Zone Camera to send it in the cloud via your Ubiquity antenna and Wi-Fi router. The Work Zone Camera will upload the day's films during the time the vehicle is back at the shop. When you need to see a film, use the Work Zone Camera Management page from Ver-Mac to find the work zone on the map and see that film on the desired date.

This document shows how to use the Work Zone Camera to film a work zone and upload the video clips, how to connect the system back at the shop, with the vehicle in the parking lot, and how to find the clips with a web interface.

2 Using the Dashcam

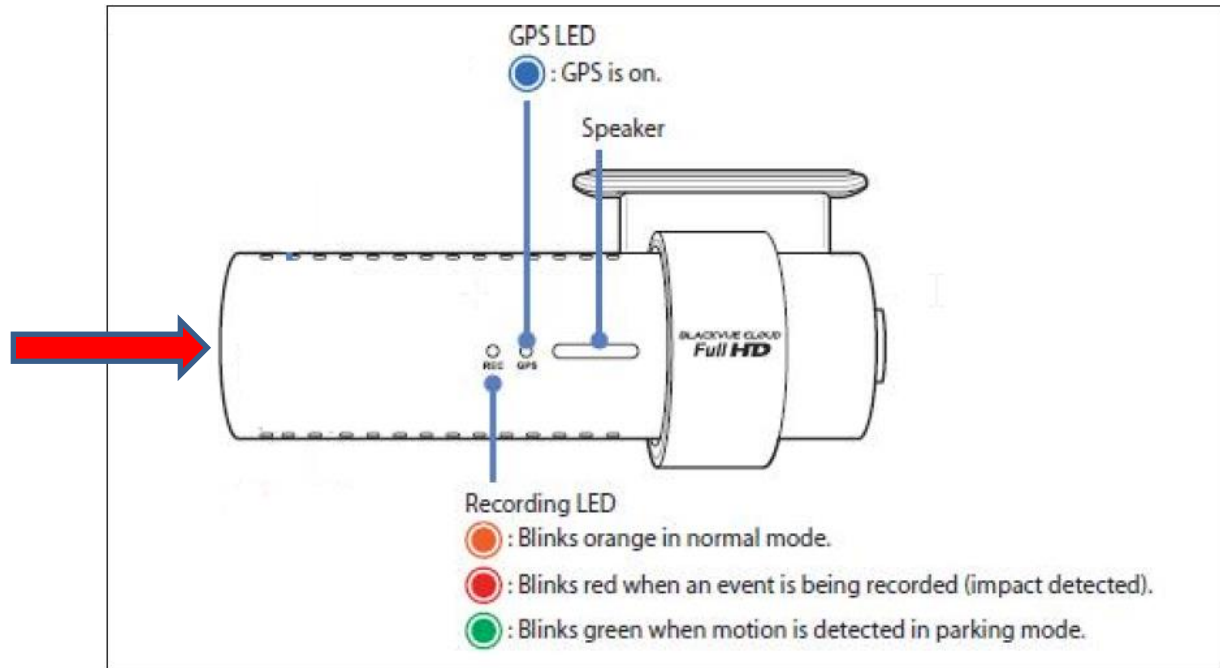
A video tutorial is available along with this document to install the Work Zone Camera in the vehicle. Please refer to the USB key or other media support that Ver-Mac gave you for this guide, you will find the video in it.

2.1 At the Beginning of the Workzone

1. Make sure the Power Magic Pro module is ON.



2. To start recording, place your hand on the left side of the camera, in front of the sensor (see red arrow in figure below). You will hear "Starting normal recording" and the orange REC LED will blink orange. Make sure the blue GPS LED is on, it might take a minute.



NOTE

It is possible to record with the GPS off, but the location will not appear. You will however be able to find that clip with a date or time search.

2.2 At the End of the Filmed Work Zone

✦ To end the recording, put your hand back in front of the sensor on the left side of the camera, you will hear "Recording OFF".

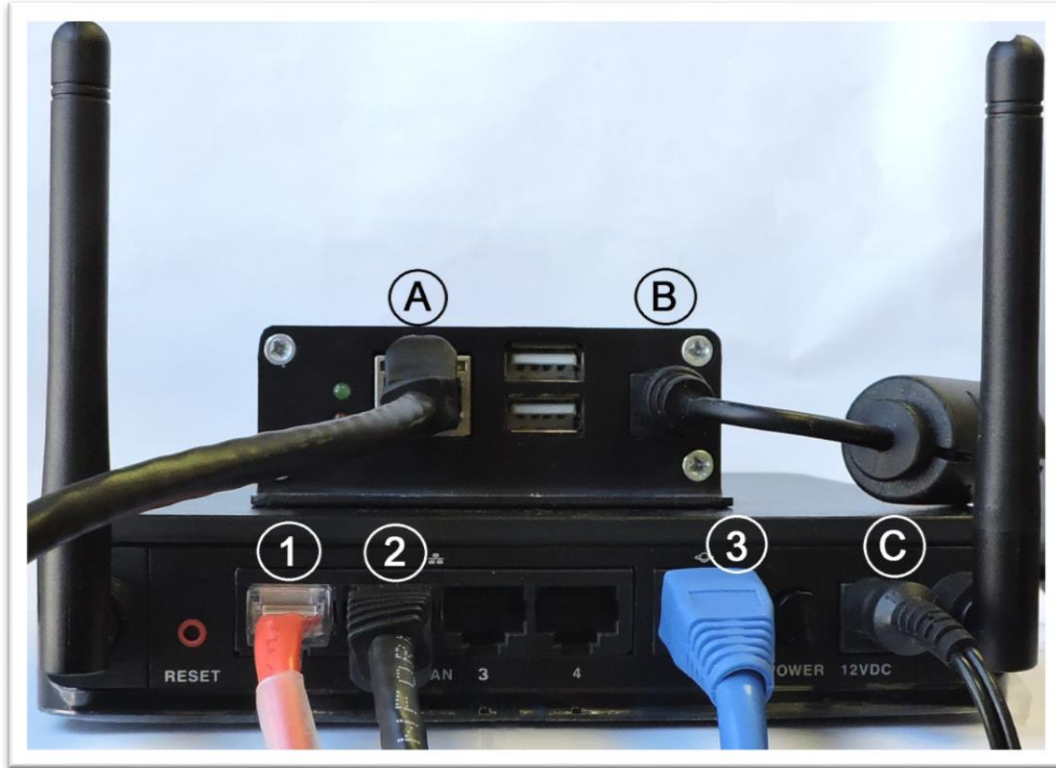
2.3 Before Coming out of the Vehicle at the Shop

✦ Make sure the Power Magic Pro module is ON.

It is important to leave the switch ON. When the camera is within your network Wi-Fi range, it starts uploading videos in the cloud.

3 Installing the Wi-Fi Receiving System

- The Cisco router needs to be as close as possible to a window that has a view on the vehicle's parking lot.
- The Ubiquity antenna must be installed in the window.
- The Ethernet cable for the WZMCserver is short, place it on the router.



- A- The Ethernet cable coming from the router
- B- 5 VDC adapter
- C- 12 VDC adapter

- 1- The Ubiquity antenna
- 2- The Ver-mac WZMC Server
- 3- Your internal network

4 Work Zone Camera Management Page

To use the Workzone Camera Management page, you first need to have one or more vehicles with cameras that are properly installed and a Wi-Fi reception system using the WZMC server. Once the system at your workstation and the Work Zone Camera in the vehicle are installed, filming begins and you will be able to look up all the videos using the Ver-Mac Work Zone Camera Management Page. To access the page:

☰ From JamLogic Mobile, select **Action**, then Work Zone Cameras.

OR

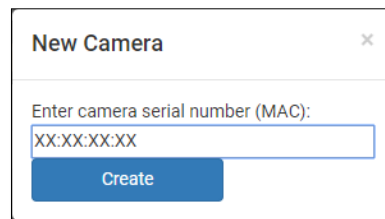
1. In a web browser, type `svr1.jamlogic.com/wmc`
2. Enter login information

The Workzone Camera Management page will appear, showing a map of North America to find video clips on your different workzones. By default the date range is today.

4.1 Adding Cameras

To see the videos you will need to add the one or several cameras you have in the Camera Management page. Simply get the MAC addresses from the Work Zone Camera devices and:

1. In the top left corner, click **New Camera**. A small dialog box appears:



2. Type the MAC address for the first camera.
3. Do as many as necessary.

4.2 Finding a Video

Because the default page displays today, it's normal to see nothing moving in the map if the vehicle uploaded content the night before.

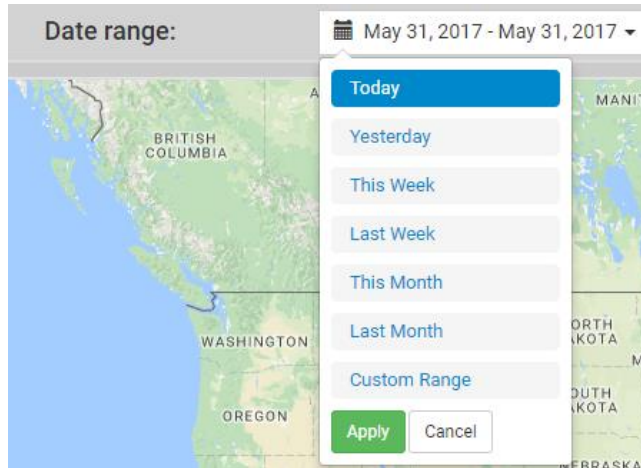
How Does it Work?

Usually, the vehicle comes back to the shop at the end of the day and the Wi-Fi system uploads content in the cloud. If the vehicle comes back to the shop during the day, the upload rate is about one minute per minute of content. So if the video has a length of 5 minutes, it will be available on the web interface in 5-6 minutes. You should get an email from JamLogic with a message similar to

A new video recorded on 5/17/2017 at 4:15 PM from camera 001122334455 is available for playback at <https://svr1.jamlogic.com/wmc>

To find videos:

1. Click the **Date range** drop box. You will have a wide selection:



2. Select a preset range.
 - If you know a specific date range, click **Custom Range**.
 - If it is a specific day, click the date twice, the **Apply** button will become fully green.
3. If you know label information, type it.
4. Then you can either use the mouse wheel or the + or – in the map, to zoom to the desired area. If the camera had a GPS signal when recording, you will see one or several blinking red spots in the map. Each point is the beginning of a work zone video.
5. Click **Search**. Matching results will appear:

Ver-Mac Work Zone Camera Management

New Camera
Date range: May 21, 2017 - May 21, 2017
Label:
Search

Start Time	Duration	Label	Camera	Play	Download
5/21/2017 3:11 PM	00:07:00	De la Suette	BV00254271F6D0	▶	↓
5/21/2017 4:39 PM	00:02:22	Empty	BV00254271F6D0	▶	↓
5/21/2017 7:30 PM	00:05:00	Empty	BV00254271F6D0	▶	↓
5/21/2017 8:16 PM	00:05:17	Empty	BV00254271F6D0	▶	↓

Showing 1 to 4 of 4 rows

4.3 Playing a Video

Once you've found the right place and date, you have 3 options:

- Download the video from the list to play a local copy
- Play it from the web interface
- Click the blinking red button and click the **Play** icon.



When the video is playing, you can accelerate it with one or several clicks. You can move the position of the cursor in the progress bar. At the same time, you can see the location on the map on the right hand side.

Adding a camera

5 Troubleshooting

The VMCserver 100 has a series of LED that communicate different states helping you find potential troubles.

LED behavior	Meaning
Red and green blink every second	Searching video files, no camera is connected to the Wi-Fi network.
Red and green blink every 0.5 second	Searching video files, at least 1 camera is connected to the Wi-Fi network.
Green blinks every 0.1 second	Downloading a video file from a camera.
Rouge blinks every 0.1 second	Uploading a video file to the cloud server.
Rouge blinks every second	Cannot connect to the cloud server.
Green solid	System starting up.
Red solid	System error.

6 Lexicon