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# 5" MONITOR HD WIRELESS CAMERA SYSTEM

## VWIC504-HDWL Owners Manual

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**LEAVE SCREEN PROTECTOR ON MONITOR TO HELP  
REDUCE GLARE IF USING POLORIZED GLASSES**

QUALITY | AFFORDABLE | DURABLE



## WARRANTY INFORMATION



Thank you for purchasing a Visionworks camera system. We have taken great care to provide you with a top-quality product. Visionworks comes with a one-year warranty (from the date of purchase) that covers defective materials or workmanship, as long as no wiring or parts are modified in any manner. If our product is found to be modified the warranty will be nullified. The camera has a three-year warranty if you register on our website. Please go to [visionworkscameras.com](http://visionworkscameras.com) and click on "Warranty Registration" or use the QR Code to increase your warranty from one year to three years.

## RETURN POLICY

No merchandise should be returned to Visionworks for credit unless accompanied by a return authorization number from our company. You will receive credit for the full amount of the return if the merchandise is returned within 30 days of the invoice date. Any merchandise that is not returned within 30 days of the invoice date is subject to a restocking fee of 15%. Contact your Visionworks dealer for return information.

Merchandise that has been special ordered cannot be returned for credit. Non-stock items returned for credit will be subject to vendor's return policy.

To avoid electrical shock and maintain optimal functionality, do not open the enclosures. High voltage may be present and there are no user serviceable parts inside. All warranties will be void should any enclosures be tampered with in any way.

To prevent short circuit, make sure that the system is not plugged in or receiving power while making system connections. In the event of a system short circuit, replacement of the 3A fuse will be required. Fuses are located under the threaded tip of the cigarette lighter, and inside the threaded barrel section of the RED 12 volt supply wire. Replacement fuses are not included with this kit.

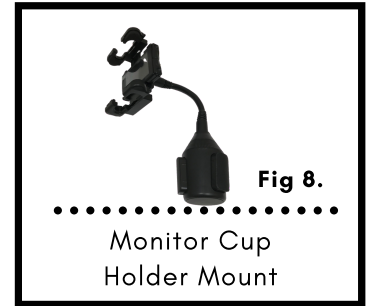
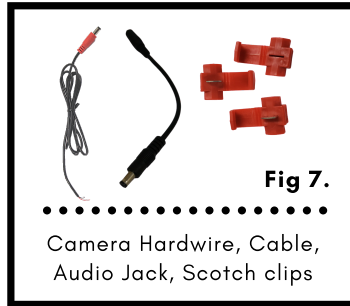
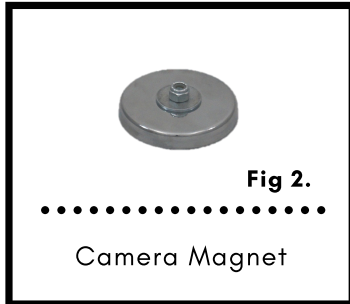
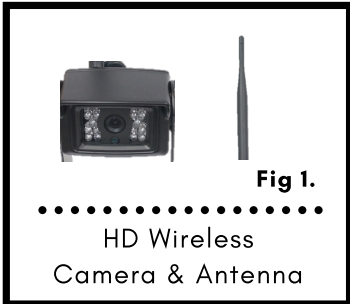
To ensure that you do not drain your battery, please disconnect the cigarette adaptor when not in use.

The camera is completely weatherproof, but the monitor is NOT and should NOT be exposed to water. Please ask about weatherproof monitors if you do not have a weatherproof cab.

## SAFETY & IMPORTANT INFORMATION

# WHAT'S INCLUDED

Identify your parts and find out what is included in your Visionworks camera system.



Model	Resolution	Viewing Angle	Lens
Sony	1080P HD Resolution	90 Degree	3.6 mm

Weatherproof Rating	Low Temp. Rating	Connection Type
IP68	-20 C -4 F	4 Pin

# CAMERA SPECS

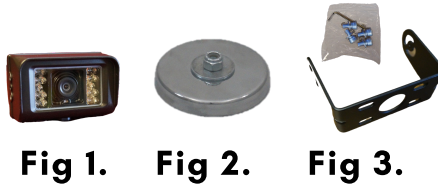
# MONITOR SPECS

<b>Model</b>	504
<b>Screen Size</b>	5 inches
<b>Aspect Ratio</b>	16:9
<b>Luminance</b>	500 cd/md2
<b>Resolution</b>	720p 800x480
<b>Language</b>	Multi-Language
<b>Mount Type</b>	Suction Cup
<b>Voltage</b>	9V-30V

<b>Audio &amp; Video</b>	4 video/4 audio input (dual channel single image display)
<b>System</b>	PAL & NTSC automatically
<b>OSD Menu</b>	Display Menu, Brightness, Color, Contrast Adjustable

<b>Built-in Recording</b>	Yes (up to 128 GB SD Card)
<b>Set Up</b>	Mirror for individual image, can set reserve trigger delay in settings

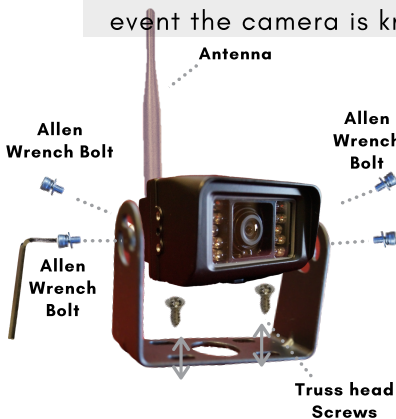
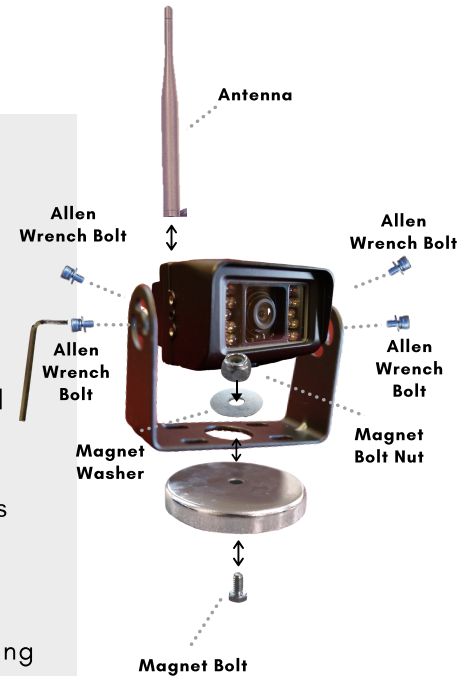
# CAMERA ASSEMBLY



## TEMPORARY MOUNTING

- 1 - Scew in the antenna provided into the back of the camera.
- 2 - Remove flat washer and nut on magnet assembly. Position and align center hole of camera and bracket assembly on top of magnet.
- 3 - Install bolt from underside of magnet and secure with flat washer and nut. Tighten this connection.
- 4 - Secure camera and set viewing angle with the four allen wrench bolts (inside camera mounting hardware). You can always adjust your camera viewing angle later.

Tip: Although the magnet contains 65lb pull force, we recommend mounting your camera on a flat surface to minimize vibration. Sometimes a zip tie can be used in addition to fasten the camera as a preventative measure in the event the camera is knocked off.



## PERMANENT MOUNTING

For permanent mounting, it is recommended that you remove the magnet and attach the camera bracket to any flat surface with the two truss head screws provided in the kit (inside camera mounting hardware).

Secure camera and set viewing angle with the four allen wrench bolts (inside camera mounting hardware). You can always adjust your camera viewing angle later.



## MONITOR ASSEMBLY



Fig 4.



Fig 5.



Fig 8.

### MONITOR ASSEMBLY

Select a mounting location that is out of direct sunlight. To prolong the life of your monitor, and for optimal viewing, select a mounting location that is out of direct sunlight. Choose a spot that that does not obstruct your view while driving.

- 1 - Secure antenna to the top of the monitor as shown.
- 2 - Mount the U-bracket assembly to a structure suitable to support the weight of your monitor and base (hardware not provided).
- 3 - Use the allen wrench provided (inside your monitor assembly hardware) to secure your monitor to the U-bracket assembly with the washer and allen wrench socket (inside your monitor assembly hardware).
- 4 - Tighten the wing nuts (inside your monitor assembly hardware) once your monitor is at your desired viewing angle. The wing nuts allow you to easily change the viewing angle of your monitor.

You may also chose to use the suction cup mount provided or the cup holder mount.

## INSTALLATION INSTRUCTIONS

Please follow all directions listed below. Make sure you have mounted your camera and your monitor (using the previous directions) before moving on to step #1.

### STEP #1: CONNECT MONITOR HARNESS TO POWER

Your system can be powered by connecting the monitor harness power input to the mating connector of the cigarette lighter adapter or ACDC wall adapter. The cigarette lighter or Wall adapter can now be installed into a 12VDC power source.

**We recommend turning the monitor off when not in use!  
Leaving monitor on can cause camera delay and long term damage!**

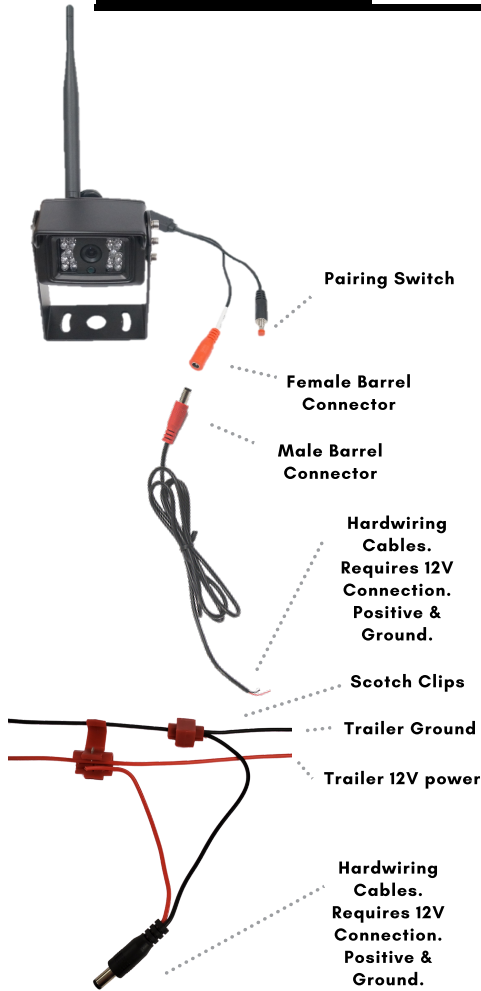
You may also chose to hardwire your system with the cables provided.



Fig 4.

Fig 8.

Monitor Harness  
Power Input



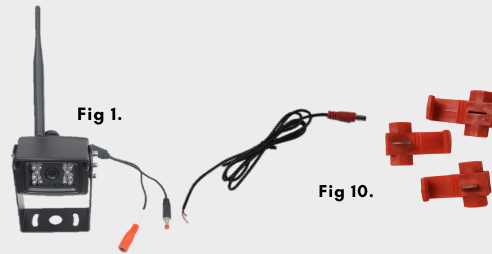
### STEP #2: POWERING YOUR WIRELESS CAMERA

Permanently or temporarily mount your camera in your preferred location. Make sure your mounted camera has a clear line of sight to your receiver within 400 ft.

Connect the female barrel connector on the camera to the male barrel connector on the hardwiring cables as shown.

Use the hardwiring cables and Scotch clips to tap into an existing power source near the spot where you are mounting your camera. If you are tapping into an existing power supply for the camera, a voltmeter will be necessary to make sure you are getting a minimum voltage of 10.5v so that your camera can operate at maximum efficiency.

If you have more than one camera, repeat step #2 and #3. A common application for the CH2 video feed is for rear view imaging when in reverse.

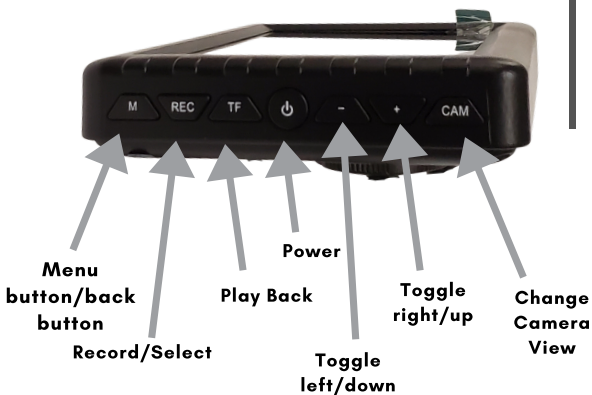


### STEP #3: PAIRING YOUR CAMERA WITH YOUR MONITOR

Your system should come pre-paired, but if you lose connection click on the pairing button on the monitor menu and then you will have 20 seconds to hold down the pairing button on the camera for 5 seconds at the same time.



### MONITOR OPERATION



some SD cards may have clearance issue (SD CARD NOT INCLUDED)

Monitor Pairing Button

Play Back Menu





**PICTURE**

Adjust brightness, contrast, volume and hue.



**MIRROR FLIP**

This feature allows users to flip the image being projected by the camera.



**MODE**

Select various different camera viewing options.



**CAMERA SET UP**

Turn on/off viewing for various cameras and adjust auto scan features for pairing.



**SYSTEM**

Adjust the time, language, color system, auto dimming, trigger delay time and turn on/off back-up guidance.



**RECORD**

The re-write feature will record over previous recordings once the card is full. You can format your SD card here.