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# 7" MONITOR AHD CAMERA SYSTEM

## VWIC700-HDR Owners Manual

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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.

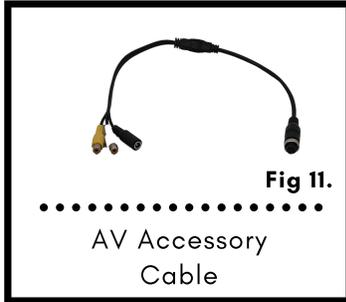
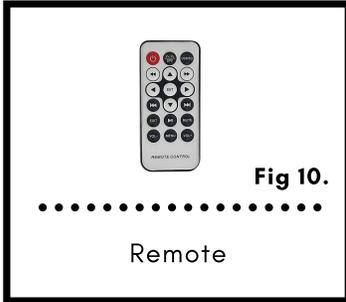
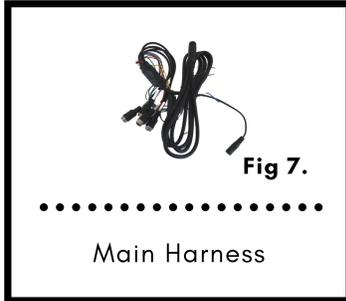
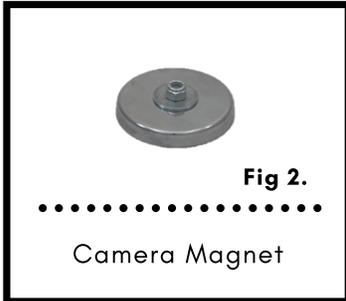
To ensure that you do not drain your battery, please disconnect the cigarette adaptor when not in use.

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 AHD 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>	7"
<b>Screen Size</b>	7 inches
<b>Aspect Ratio</b>	16:9
<b>Luminance</b>	500 cd/md2
<b>Resolution</b>	1024 x 600
<b>Language</b>	Multi-Language
<b>Mount Type</b>	U-Type
<b>Sunshade</b>	Removable
<b>Voltage</b>	12V-36V

<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



Fig 1.



Fig 2.



Fig 3.

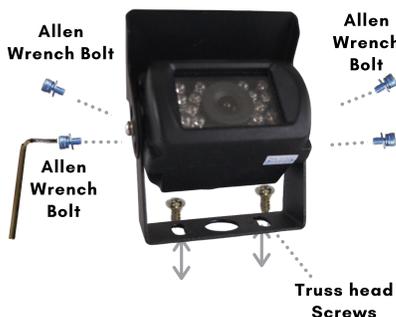
## TEMPORARY MOUNTING

1 - Remove flat washer and nut on magnet assembly. Position and align center hole of camera and bracket assembly on top of magnet.

2 - Install bolt from underside of magnet and secure with flat washer and nut. Tighten this connection.

3 - 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 6.

## MONITOR ASSEMBLY

Before assembling and mounting your monitor please consider a location for your monitor that is out of direct sunlight (to prolong the life of your monitor and for optimal viewing) and a spot that does not obstruct your view.

- 1 - Mount the U-bracket assembly to a structure suitable to support the weight of your monitor and base (hardware not provided). \*Suction cup mounts are available through your local dealer.
- 2 - 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).
- 3 - 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.

# INSTALLATION INSTRUCTIONS

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

## STEP #1: CONNECT MONITOR TO HARNESS

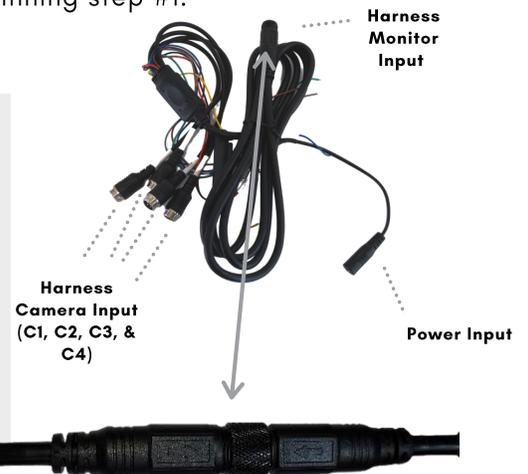
Connect your monitor cable harness to the main harness. Ensure arrows are aligned on outer jacket of cable ends. Turn silver cable connector nut clockwise to secure connection of the cables (IF YOU BEND THE PINS IT VOIDS THE WARRANTY).



Fig 4.



Fig 7.



**STEP #2: CONNECT HARNESS TO EXTENSION CABLE**

Connect your 30 ft. extension cable to your C1 harness camera input. Ensure arrows are aligned on outer jacket of cable ends. Turn silver cable connector nut clockwise to secure the connection of the cables (IF YOU BEND THE PINS IT VOIDS THE WARRANTY).

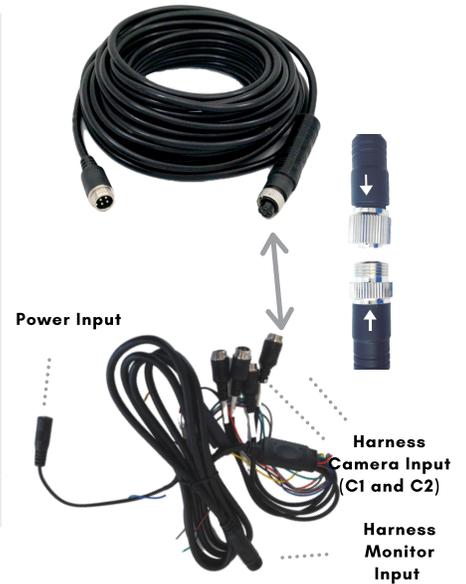
Do not over tighten. Pull rubber sleeve membrane over cable connection.



Fig 8.



Fig 7.



**STEP #3: CONNECT EXTENSION CABLE TO CAMERA**

Run your 30 ft. extension cable from your harness to your mounted camera. Cable routing is important. Please make sure the cables do not interfere with the normal operation of the machine or any safety equipment. Check for "pinch points" or other potential hazards to the cable(s). Secure all cables to vehicle/equipment using cable clips, zip ties or other style fasteners.

Connect the other end of the 30 ft extension cable to your camera harness cable. Ensure arrows are aligned on outer jacket of cable ends. Turn silver cable connector nut clockwise to secure the connection of the cables (IF YOU BEND THE PINS IT VOIDS THE WARRANTY). Do not over tighten. Pull rubber sleeve membrane over cable connection.

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. For CH2 video feed for a reverse application, it is common to connect the GREEN wire to the reverse wire on the vehicle.



Fig 1.



Fig 8.

**OPTIONAL AV CABLE INSTALL**

Included in kit is an AV Accessory Cable adaptor that will allow you to play videos from a DVD player or alternate video source. It can be installed into C1 or C2 monitor inputs.



Fig 11.

### STEP #4: POWER CABLE INSTALLATION

#### Method #1: Cigarette Lighter Adapter

Your system can be powered by connecting the harness power input to the mating connector of the cigarette lighter adapter. The cigarette lighter adapter can now be installed into a 12VDC power source. To verify that the system is receiving power, cup your hands over the camera lens, and the LED lights will have a red glow.



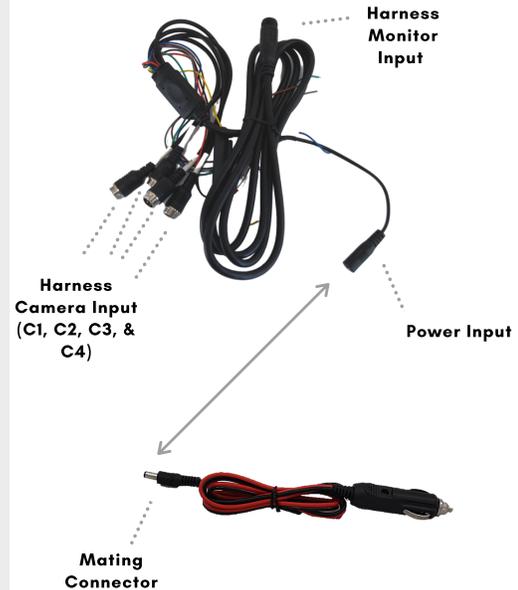
Fig 7.



Fig 9.

#### Method #2: Hardwiring option

Connect the black wire of harness to ground. Connect the red wire of harness to 12VDC power supply. To verify that the system is receiving power, cup your hands over the camera lens, and the LED lights will have a red glow. The green wire is only used if you want the C2 input to automatically display when the vehicle is put into reverse. If this is your preference please attach this wire to the appropriate connection on your vehicle.



View Channel 1/Toggle Left

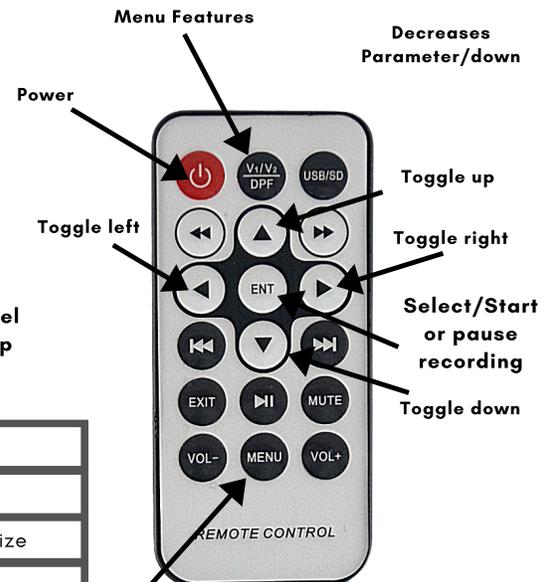
View Channel 2/Toggle Right

Power

View Channel 3/Toggle Down

View Channel 4/Toggle Up

## MONITOR & REMOTE OPERATION



Menu Features			
<b>Picture</b>	See next page	<b>Guide Lines</b>	See next page
<b>Rotate</b>	Rotate screen	<b>Time Setting</b>	See next page
<b>Blue Screen</b>	Turn On/Off Blue Screen	<b>Shrink Video</b>	Compress video size
<b>Language</b>	Adjust Language	<b>Mirror Flip</b>	See next page
<b>Time Stamp</b>	Turn On/Off Time Stamp	<b>Format</b>	Select to format SD card
<b>Auto Switch</b>	Turn On/Off Cycle Display	<b>Default Setting</b>	See next page
<b>Trigger Delay</b>	See next page	<b>Software Version</b>	Information on software



## PICTURE

Adjust screen brightness, color, and contrast for each individual camera view. Additionally, the reset button will reset your picture back to factory settings.



## TRIGGER DELAY

Adjust the language and to set a delay time of image when trigger wires are used in the system.



## GUIDE LINE

Turn on/off guide lines for backing up.



## TIME SETTING

Adjust the year, month, day, and time.



## MIRROR FLIP

Set each camera on/off to mirror the image being shown on the screen or use default setting.



## DEFAULT SETTING

This is the factory reset button.