



5" HEAVY DUTY MONITOR STANDARD CAMERA SYSTEM

VWIC503 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 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.




Fig 1.
.....
Standard Camera




Fig 2.
.....
Camera Magnet




Fig 3.
.....
Camera Mounting Hardware




Fig 4.
.....
5" Heavy Duty Monitor & U-Bracket




Fig 5.
.....
Main Harness




Fig 6.
.....
15 ft. Camera Extension Cable




Fig 7.
.....
Cigarette Lighter Adapter




Fig 8.
.....
Remote

| Model | Resolution | Viewing Angle | Lens |
|-------|------------|---------------|--------|
| Sony | 700 TVL | 90 Degree | 3.6 mm |

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

CAMERA SPECS

| | |
|---------------------|----------------|
| Model | 5" |
| Screen Size | 5 inches |
| Aspect Ratio | 16:9 |
| Luminance | 350 cd/md2 |
| Resolution | 800*R.G.B*480 |
| Language | Multi-Language |
| Mount Type | U-Bracket |
| Sunshade | None |
| Voltage | 12V-24V |

Audio & Video

3 video/3
audio input
(dual channel
single image
display

System

PAL & NTSC
automatically

OSD Menu

Display Menu,
Brightness,
Color, Contrast
Adjustable

MONITOR SPECS

Set Up

Mirror for
individual image,
can set reserve
trigger delay in
settings

CAMERA ASSEMBLY

**Fig 1.****Fig 2.****Fig 3.**

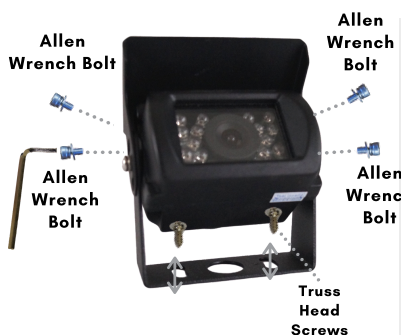
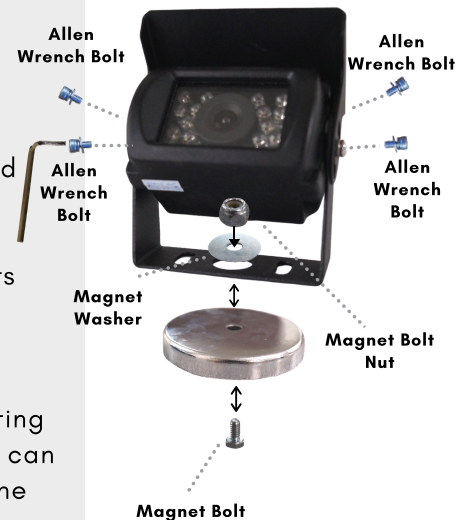
TEMPORARY MOUNTING

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.

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). Consider removing the U-bracket from the monitor for this step.
- 2 - Tighten the wing nuts 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.



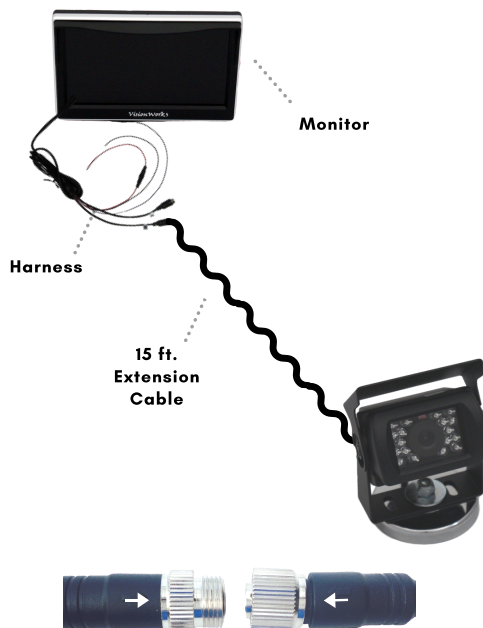
Fig 5.



STEP #2: CONNECT HARNESS TO EXTENSION CABLE

Connect your 15 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.



STEP #3: CONNECT EXTENSION CABLE TO CAMERA

Run your 15 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 15 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.



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.



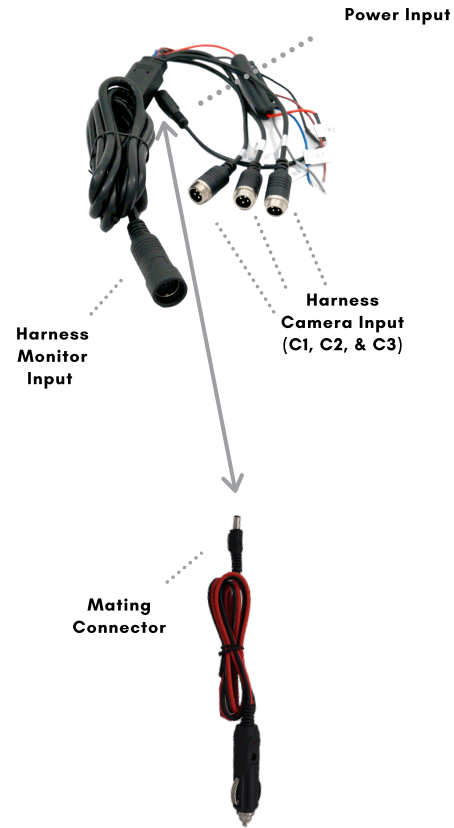
Fig 5.



Fig 7.

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.



Switch View To Another Camera Input

Power on/off

Increases Parameter/up

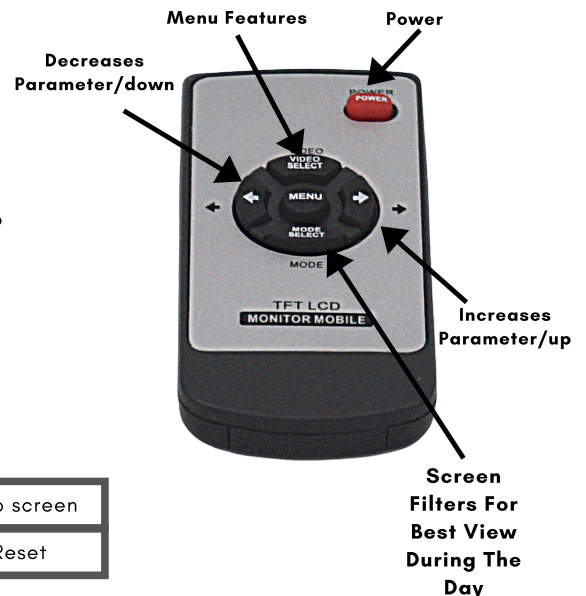
Menu Features

| Menu Features | |
|---------------|-----------------------|
| First Press | Adjust Brightness |
| Second Press | Adjust Contrast |
| Third Press | Adjust Color |
| Fourth Press | Adjust Volume |
| Fifth Press | Adjust Aspect Ratio |
| Sixth Press | Mirror or flip screen |
| Seventh Press | Power shut off delay |

Decreases Parameter/down

Eighth Press Mirror or flip screen

Ninth Press Factory Reset

MONITOR & REMOTE OPERATION

Menu Features

Power

Decreases Parameter/down

Increases Parameter/up

Screen Filters For Best View During The Day