5” Complete Camera System

Owner’s manual
(VWIC500)

Warranty Information

Thank you for purchasing a Vision Works camera system. We have taken great care to provide you with a top quality product. Vision Works comes with a one year warranty 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.

Please read and follow the owner’s manual for installation and operation of your camera system.

Return Policy:

No merchandise should be returned to Vision Works 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 Vision Works 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.

Important!

1. 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 12volt supply wire. Replacement fuses are not included with this kit.

2. To ensure that you do not drain your battery, it may be necessary to disconnect the cigarette adaptor when not in use.

3. The camera is completely weatherproof but the monitor is NOT and should NOT be exposed to water. Please ask about weatherproof monitors if you have no cab.

1.0 Specifications

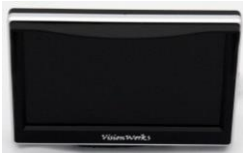
Monitor Specifications

Model	5”
Screen Size	5 inch
Aspect Ratio	16:9
Luminance	350cd/m2
Resolution	400*R.G.B*272
Audio & Video	2 video/2 audio input (dual channel, single image display)
System	PAL & NTSC automatically
Voltage	12V
Language	Multi-language
OSD Menu	Display menu, brightness, color, contrast adjustable
Bracket Accessories	Self-Adhesive Base and Suction Cup Base Included
Sunshade	Removable

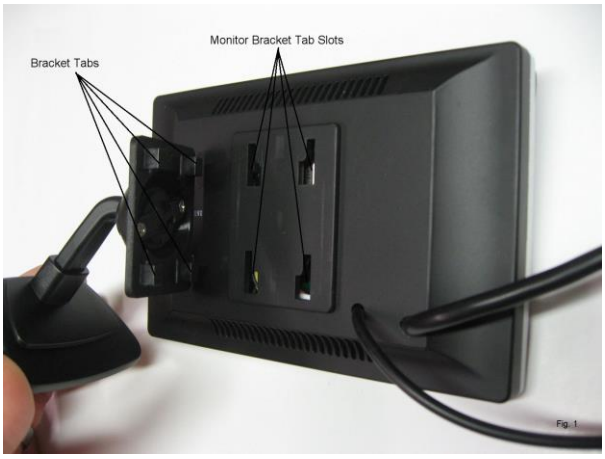
Camera Specifications

Model	Sony
Resolution	700 TVL
Lens	3.6 mm
No. of Pins	4
Weatherproof Rating	IP68
Low Temp Rating	-20 C -4 F
Magnet	Yes
Auto Shading	Yes

2.0 Parts Identification

Monitor		Quantity 1
License Plate Camera		Quantity 1
Main Harness		Quantity 1

Video Extension Cable (30ft)		Quantity 1
Cigarette Lighter Adapter		Quantity 1
AV Accessory Cable		Quantity 1
Self-Adhesive Bracket		Quantity 1
Suction Cup Bracket		Quantity 1



3.0 Assembly Instructions

Camera Assembly

Camera can be mounted using magnet and attaching hardware. These are the steps required to attach the magnet to the camera.

1. 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.

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

Monitor Assembly

Option 1: Self Adhesive Base Installation – install monitor onto monitor base that contains 3M self-adhesive tape backing. Ensure the four plastic tabs on base are locked into position on rear of monitor. Ref. Fig.1. Adjust and position monitor and base assembly to preferred viewing location. Viewing surface location must be clean and fairly smooth. Once desired position is located, remove protective 3M tape backing from monitor base, and position base to desired location applying gentle pressure to monitor base and mounting surface.

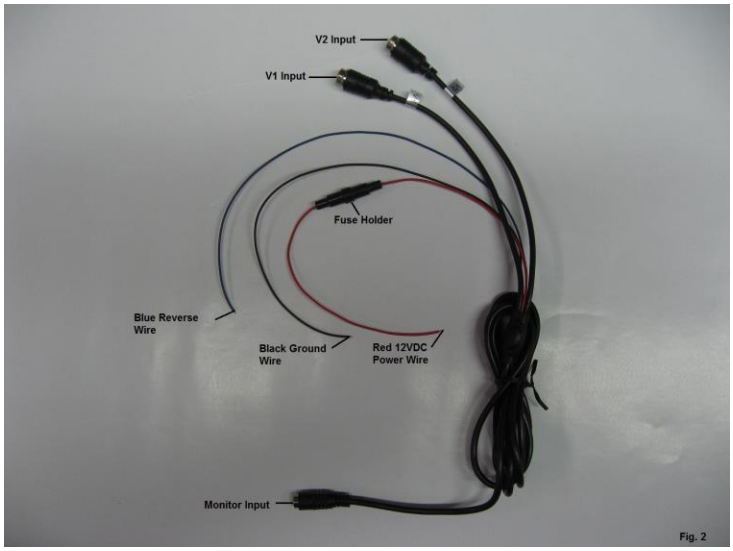
Option 2: Suction Cup Base Installation – suction cup base installation is only recommended for use on windows. Ensure the four plastic tabs on base are locked into position on rear of monitor. Ref. Fig.1. There is a quick release on the base of the suction cup used to attach and remove base from the window.

(Use Figure On Previous Page)

4.1 Installation Instructions:

Step 1:

Connect ***MONITOR*** harness to the ***MAIN HARNESS MONITOR INPUT***. 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). Ref. Picture Below & Fig.3



Step 2:

Connect ***VIDEO EXTENSION CABLE*** harness to C1 input on ***MAIN HARNESS***.

Ensure arrows are aligned on outer jacket of cable ends.

Turn silver cable connector nut clockwise to secure the connection of the cables.

Do not over tighten. Pull rubber sleeve membrane over cable connection. Ref. Fig.2

Step 3:

Connect other end of ***VIDEO EXTENSION CABLE*** harness to ***CAMERA*** harness cable. Again, ensure arrows are aligned on outer jacket of cable ends. Turn silver cable connector nut clockwise to secure the connection of the cables. Do not overtighten.

Ref. Fig.2

Step 4 (optional second camera):

Only one camera can be displayed at a time on monitor screen. The **MAIN HARNESS** included in this kit contains two video cable inputs. The cable input labeled V2 can be used to accept a video signal from a second optional camera. For V2 to activate and provide a video feed to the monitor, 12VDC power must be supplied to the BLUE wire on the **MAIN HARNESS**. To change between both V1 and V2 video feeds, a switch will need to be installed in the BLUE 12VDC wire. When the switch is activated to supply power to the BLUE wire, the V2 video input will display on the monitor. When the switch is activated to terminate power to the BLUE wire, the V1 video feed will display on the monitor.

Note: A common application for the V2 video feed is for rear view imaging when in reverse. For V2 video feed for a reverse application, it is common to connect the BLUE wire to the reverse wire on the vehicle.

Ref. Fig.2

4.2 Power Cable Connection Installation:

Method 1:

Cigarette Lighter Adapter - system can be powered by connecting the ***MAIN HARNESS*** CIGARETTE LIGHTER 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. Ref. Fig.2

Method 2:

Hardwire Option: - Connect BLACK wire of MAIN HARNESS to ground. Connect RED wire of **MAIN 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. **DO NOT USE THE BLUE WIRE** (only use when you have two cameras).

Ref. Fig.2

5 Operating Instructions:

Monitor:

Increase (+) Setting – Increases the brightness/contrast of the screen with the menu button.

Menu – Provides menu options that then require adjustment with the increase and decrease setting.

Decrease (-) Setting – Decreases the brightness/contrast of the screen with the menu button.

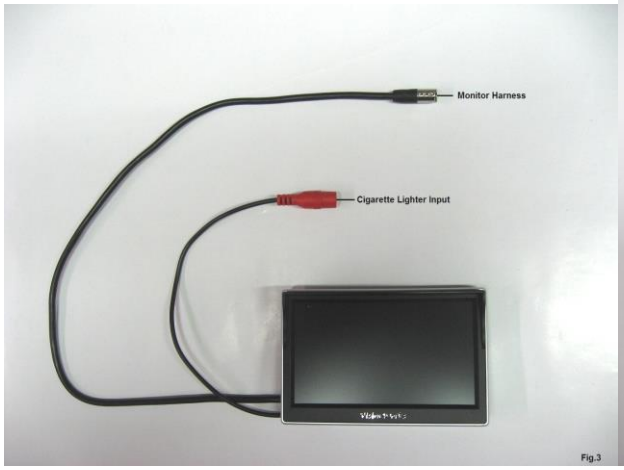


Fig.3

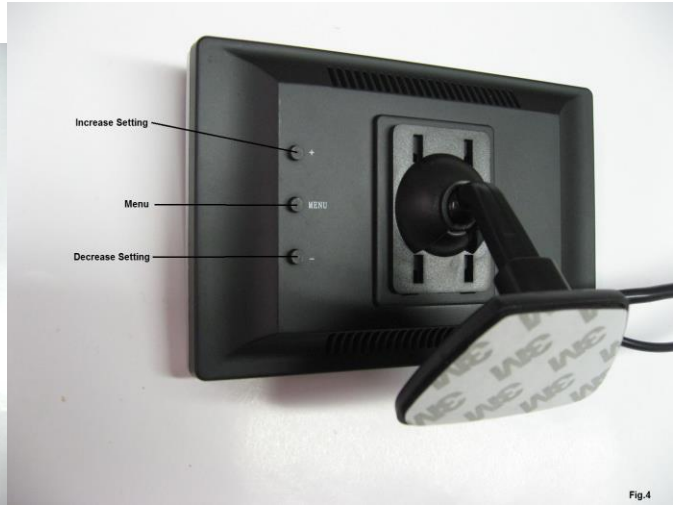


Fig.4