

Digital Wireless Split Screen Camera System with Cigarette Lighter Adaptor

User Manual



Agri-Vue™

What's in the Box?

- 1, 7 inch Digital Wireless Monitor (split-screen) & Power Cable
- 1 (or 2) Digital Wireless Cameras & Power Cable(s)
- Camera / Monitor Mounts (windscreen/suction & dashboard 'U' mount) and Cigarette Lighter Power Adapter

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Introduction

Thanks for purchasing the Agri-Vue™ digital wireless camera system. This User Manual will enable you to install and operate the system.

Agri-Vue™ is a driving/operating aid and should be utilised in conjunction with vehicle/machine rear-view and wing mirrors etc.

Safety Information

Please read the entire manual and follow the instructions and warnings carefully. Failure to do so can cause serious damage and/or injury, including loss of life. Be sure to obey all applicable local traffic and motor vehicle regulations as it pertains to this product. Improper installation will void manufacturer's warranty.

USAGE

- The Rear View Camera System is designed to help the driver safely detect people and/or objects helping to avoid damage or injury. However, you the driver, must use it properly. Use of this system is not a substitute for safe, proper or legal driving.
- Never back up while looking at the monitor alone. You should always check behind and around the vehicle when backing up, in the same way as you would if the vehicle did not have the Rear View Camera System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.
- The Rear View Camera System is not intended for use during extensive back-up maneuvers or backing into cross traffic or pedestrian walkways.
- Please, always remember, the area displayed by the Rear View Camera System is limited. It does not display the entire panorama that is behind you.

Safety Information

INSTALLATION

- Electric shock or product malfunction may occur if this product is installed incorrectly.
- Use this product within the voltage range specified. Failure to do so can cause electronic shock or product malfunction.
- Take special care when cleaning the monitor.
- Make sure to firmly affix the product before use.
- If smoke or a burning smell is detected, disconnect the system immediately.
- Where the power cable may touch a metal case, cover the cable with a friction tape. A short circuit or disconnected wire may cause a fire.
- While installing the Rear View System be careful with the wire positioning in order to avoid wire damage.
- The Rear View System should only be used when the vehicle is in reverse.
- Do not watch movies or operate the monitor while driving; as it may cause an accident.
- Do not install the monitor where it may obstruct drivers view or obstruct an air bag device.
- Dropping the unit may cause possible mechanical failure.

Before Beginning Installation

Before drilling/fixing the camera, please ensure that the monitor can receive the camera images; reposition the camera/aerial until full signal is received by the monitor. Ensure that power cables are secure and are routed away from hot, or moving parts

Step 1: Choose the monitor and camera locations.

Step 2: Install all cables in vehicle, when necessary a 0.8 (20mm) hole should be drilled for passing camera cable through vehicles walls. Install split grommets where applicable.

Step 3. Once all cables are installed and secured, re-test the system by ensuring that the monitor can receive images from the camera(s). The cameras are pre-paired to the monitor and pairing instructions can be found on Page 9.

Installation Guide

Camera Connection:

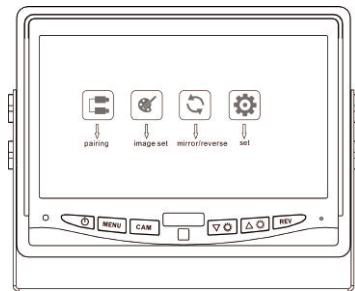
The camera(s) can be powered via the reversing light or any lighting circuit (side/marker lights etc), or any 12V/24V supply.

Monitor Connection:

The Monitor is powered via the Cigarette Lighter Power Adapter, or the hard-wire power adapter (included).

Cleaning

- If dirt, rain or snow attaches to the camera, the monitor may not clearly display objects.
- Do not use alcohol, benzene or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a clean cloth dampened with mild cleaner diluted with water and then wipe with a dry cloth.



Pairing:

1. The Monitor will pair to the CH that is not already paired (i.e if camera 1 is switched on, the monitor will pair a new camera to CH2). If no cameras are switched on, or paired, the monitor will pair CH1 - press the 'pair' button after switching the monitor on - a 20 second on screen countdown will begin (power the camera to be paired within the countdown period).
2. The Monitor can not pair while in split screen mode - press the 'Cam' button to select Cam1, or Cam2 before pairing.
3. The Monitor Menu button does not work if the monitor is already paired to 2 cameras (that are switched on).

System Operation

System Operation:

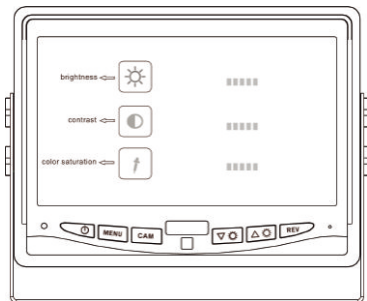
To turn on the monitor, press "POWER ON" button.

To get to Main Menu, press "MENU"

Use the arrow keys to navigate the menu and use the "MENU" button to confirm your selection.

To go back, press the "REV" button.

To adjust the volume, use the up and down arrows while viewing the camera

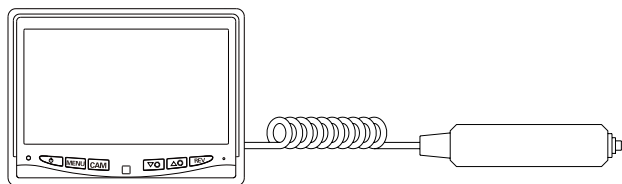


Menu Options:

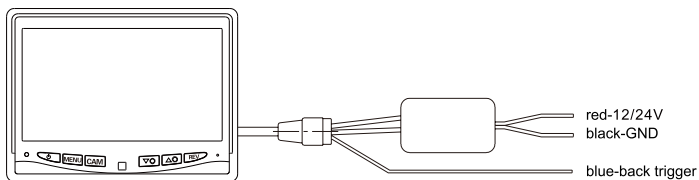
Image - adjust the image properties (brightness, contrast, saturation)

Rotate - rotate the image in all four directions

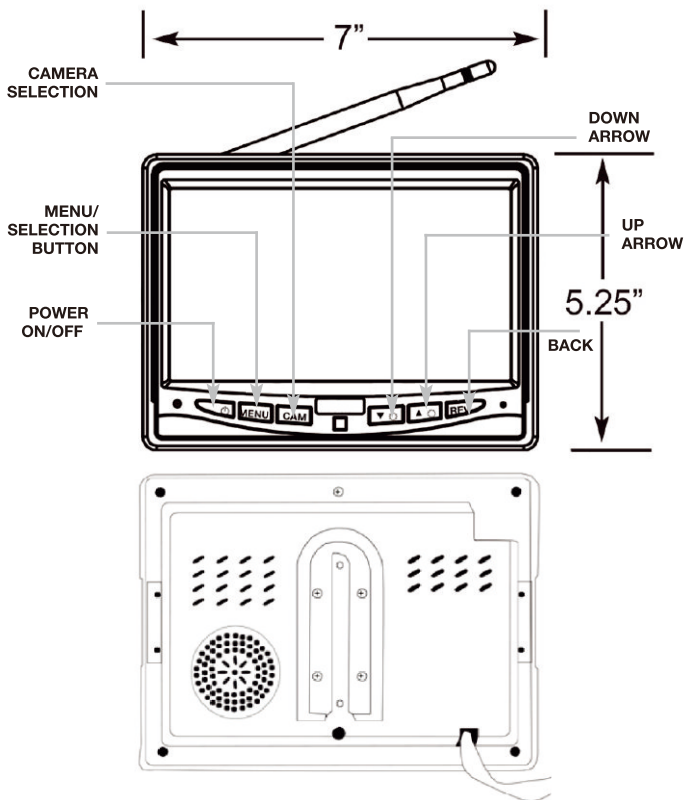
Settings - adjust the grid-lines and the frequency



OR



Operational Diagram

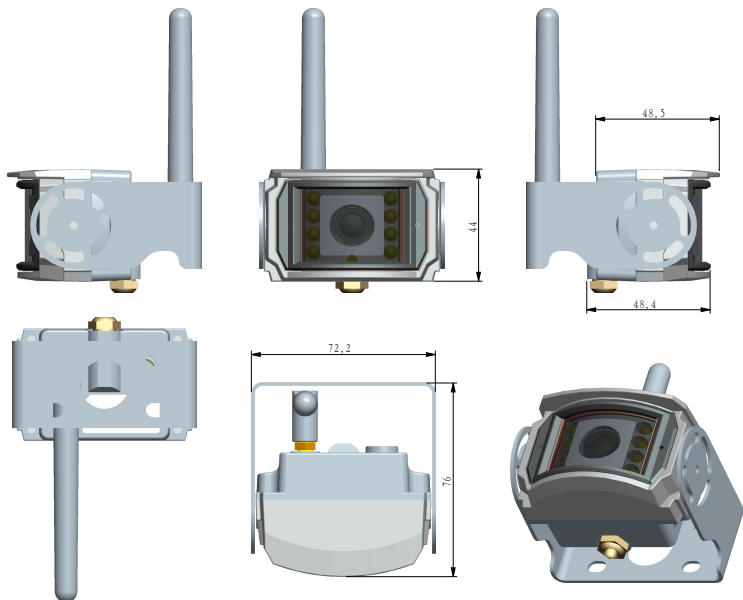


Monitor Specification

TFT LCD Digital Monitor

| | |
|-----------------------|-----------------------|
| Screen Size | 7" |
| Dot Resolution | 800H x 3 (RGB) 480v |
| Display Format | 16:9 / 500:1 |
| Display Brightness | 400cd/m ² |
| Viewing Angle | U:50° / D:60° / R:70° |
| Video Input | 2 channel |
| Video Source | 1Vp-p, 75Ω |
| Power Supply | DC 12V(+/- 10%) |
| Power Consumption | 5W |
| Operating Temperature | -30°C ~ +80° C |
| Video System | Auto NTSC/PAL |
| Overall Dimensions | 7"L x 5"H x 1"D |
| Weight | 400G |
| Impact Rating | 5G |
| Dot Pitch | 0.192H x 0.1805v |
| Sync System | Internal |
| Weight | 520g |

Camera Dimensions

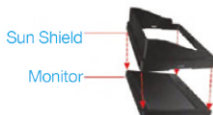


Camera Specifications

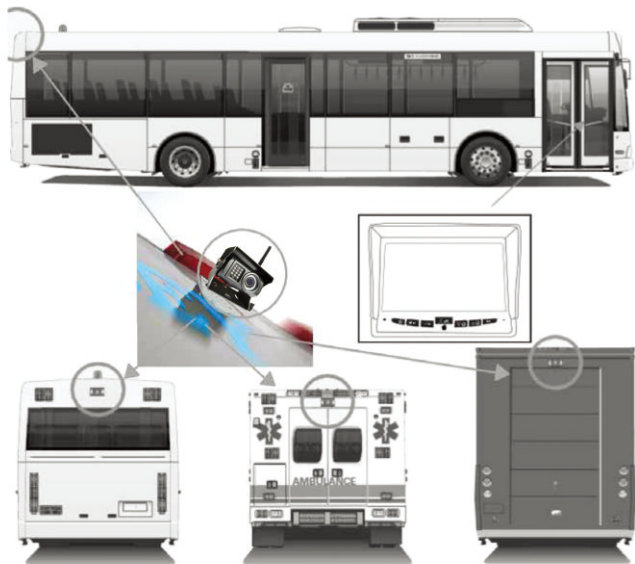
| Camera | |
|-----------------------|---|
| Gamma Correction | $r=0.45$ to 1.0 |
| Image Sensor | 540TV lines |
| Lens | 2.5mm |
| View Angle | 120° |
| Sync System | Internal Synchronization |
| Infrared distance | 50 Feet (8 Infrared) |
| Usable Illumination | 0 Lux (IR On) |
| Power Source | DC12/24V |
| S/N Ratio | More than 48dB |
| Electronic Iris | 1/50, 160-1/100,000sec |
| Video Output | 1Vp.p 75ohm |
| IR Switch Control | ACDS Automatic Control |
| Impact Rating | 20G Vibration/100G Shock |
| Operating Temperature | -30°C - $+60^{\circ}\text{C}$ /RH 95% Max |
| Storage Temperature | -30°C - $+60^{\circ}\text{C}$ /RH 95% Max |
| Waterproof Rating | IP68 |

Splitting

Installing sun shield: Put shade cover on the display. Installing back cover: Put the monitor with shade cover in the back cover (only for embedded monitor)



Positioning



Troubleshooting

Monitor Displays Blue Screen & Displays No Signal

- Do a hard reset, unplug all cables and power cables leave out for 1 minute and then re-connect them.
- Check to ensure that the connection to the camera is tight.

No Image On Screen

- Verify camera is on correct camera input
- Verify camera is connected to power/ground

Audio on Camera

- Verify chosen camera has audio
- Verify volume setting

Signal Issues

- The antenna booster is an extendable antenna that can be used in case of signal issues.
- The cable is attached just like the standard antenna by screwing on the connection- The antenna itself is attached magnetically.

One Year Warranty

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear and tear, this damage is due to abuse, improper maintenance, neglect or accident; or the damage is due.

Please contact us for any issues, inside or outside, of the warranty period:

support@trailervision.co.uk

01733 246473

Agri-View™

www.trailervision.co.uk

