



Wireless That *ACTUALLY* Works

2.4GHz Digital Wireless Transmitter with PLC

RVS-AVL, RVS-AV4, RVS-AV4+



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INTRODUCTION

Congratulations on purchasing a Air Vue™ Digital Wireless Transmitter! With this manual you will be able to properly install and operate the unit. The accompanying monitor for this wireless transmitter is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Monitor should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle. In some jurisdictions, it is unlawful for a person to drive a motor vehicle equipped with a TV viewer or screen located forward of the back of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.

IN THE BOX

1 x Transmitter Box
1 x Antenna
Cables
Manual

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 RVS System be careful with the wire positioning in order to avoid wire damage.
- The RVS 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.
- When in reverse, monitor buttons are not functional



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If you have questions about this product,
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**IN NO EVENT SHALL SELLER OR MANUFACTURER BE
LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF
ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM
ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.**

PRECAUTIONS

Storage and Keeping

1. Do not expose the device to excessive heat or cold. The storage temperature of this device is $-30\sim+80^{\circ}\text{C}$. The operating temperature of this device is $-20\sim+70^{\circ}\text{C}$ with a maximum relative humidity of 90%.
2. Avoid dropping or striking this device.
3. Avoid using this device in enclosed spaces, areas with excessive vibration or subjecting this device to severe impacts.
4. Do not place cables where they may be pinched or stepped on.
5. The device is designed to be water-resistant, but not completely waterproof for underwater application.

Operating Precautions

1. The device may be powered by a 12 or 24 volt automotive battery or vehicle electrical system.
2. Make sure all cables are connected properly. Observe polarity. Improper cable connections may damage the device. Remove the power cable connections when you do not intend to use the unit.



High voltage is present within the device.
The case should only be opened by professionals.



Never try to repair this device by yourself. In case of any problems, please turn off the device at once and notify our company or authorized dealer.

1. MAINTENANCE

Remove all cable connections from the device before cleaning the unit.

	Caution	
	Risk of electric shock Do not open	
Caution: to reduce the risk of electric shock, Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.		



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



This symbol is intended to alert the user not to dispose of electrical and electronic equipment.

CAUTION

Any changes or modifications not expressly approved in this manual could void your warranty and necessitate expensive repairs.

2. PRODUCT FEATURES



- (1) Power supply: DC10-32V
- (2) Supply 12V voltage for camera
- (3) Supports AHD 720P or AHD 1080P camera
- (4) Metal housing, solid, suitable for outdoor use
- (5) Waterproof protection level: IP69K
- (6) Power & Pair LED Indicators

Power: the **"POWER"** indicator turns red when power is on.

Pairing: **"PAIRING"** indicator turns solid blue when paired.

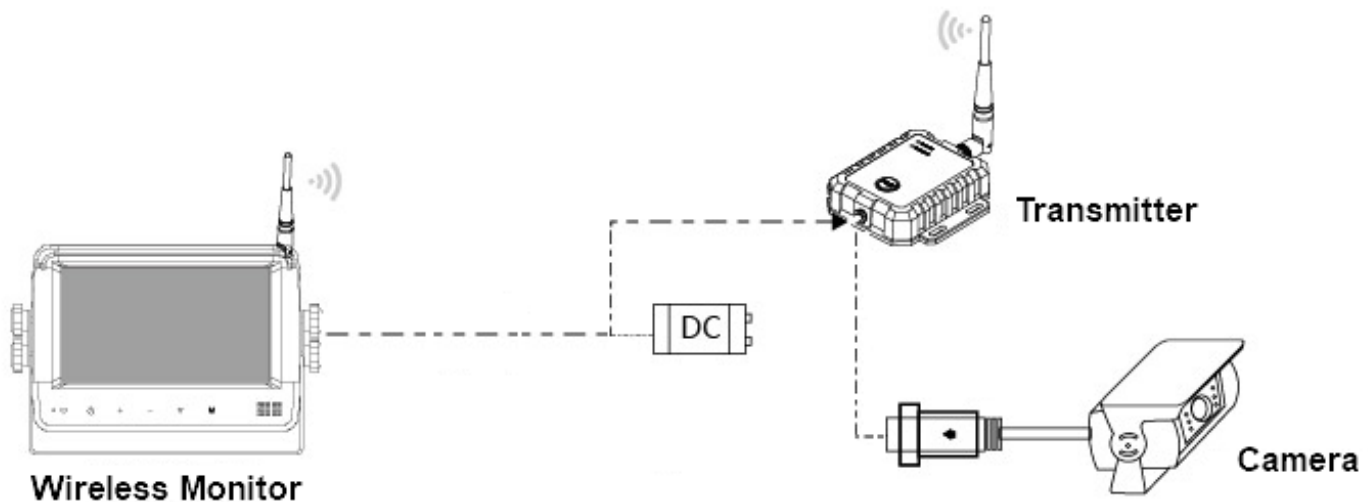


3. TECHNICAL SPECIFICATIONS

Power supply	DC 10-32V
Video input	AHD720P / AHD1080P
Video Compression	H.264
Operation frequency	2400 - 2483.5 MHz (ISM band)
Modulation	QPSK
RF Bit Rate	6Mbps
Spread spectrum	FHSS
Transmitter Power	FCC < 26 dBm, CE < 20 dBm, MIC < 10 dBm
Receiving Sensitivity	-78dBm
Transmission Range	FCC < 300 m, CE < 200 m, MIC < 60 m
Active area	154.08(H) × 85.92(V) mm
Signal delay	< 200ms
Operating Temperature	-20 ~ +70°C RH90%
Storing Temperature	-30 ~ +80°C RH90%

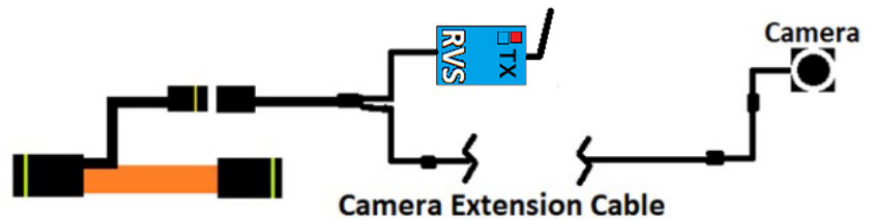
4. CONNECTION AND OPERATION INSTRUCTIONS

1. Safely and securely mount the wireless transmitter on the underside of the trailer so that the letters 'RVS' face towards the vehicle. Orient the device antenna to match the angle of the monitor antenna.
2. Connect the transmitter to RVS-TPA5 Trailer Power Harness as shown in Section 4.
3. Safely and securely route camera system extension cable(s). Connect the camera(s) to the transmitter, as shown below.
4. When the transmitter is powered on, the "POWER" indicator turns red, and the system will start to pair automatically to the available monitor on the same power circuit. When pairing is complete, the "PAIR" indicator turns blue.

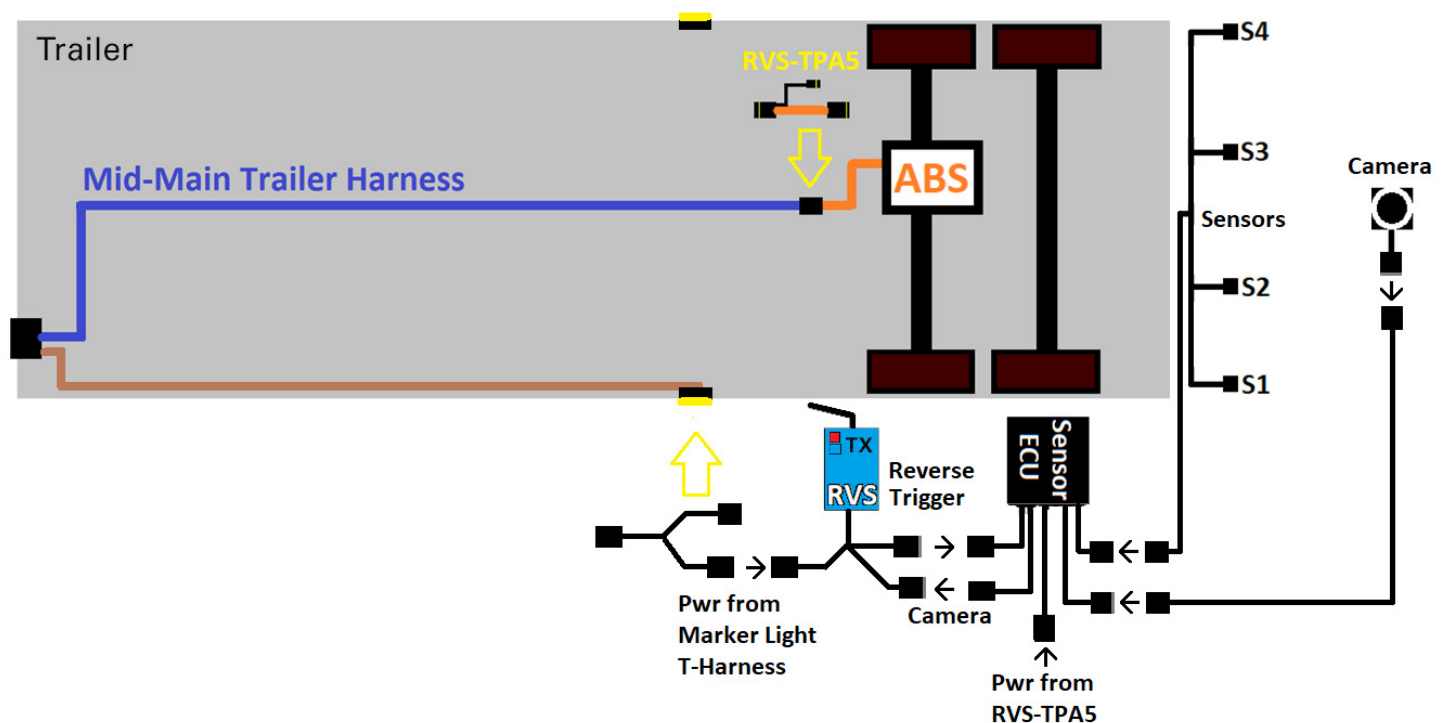


5. APPLICATION

Connection diagram



Sensor integration connection diagram



6. TROUBLESHOOTING

Monitor Displays Black Screen or Cannot Pair

- Verify that the device's POWER LED is illuminated. Verify existing trailer connections are secure.
- Unplug all cables and leave out for 30 seconds and then re-connect them.
- Check to ensure that the connection to the camera is secure.
- Verify that the monitor's red +12V harness wire is connected same circuit as the wireless transmitter, most likely the Trailer ABS Circuit.

Note: there may be more than one Trailer ABS circuit inside the fuse box to try.

Monitor Will Not Power-Up

- Check fuse
- Check +12V connection to monitor
- Check ground connection

No Image On Screen

- Verify camera is in correct camera input
- Verify power cable is connected to monitor
- Verify camera is connected to power
- Connect known working camera and cable to transmitter

Audio on Camera (optional)

- Verify chosen camera has audio
- Verify volume setting

ONE YEAR WARRANTY

REAR VIEW SAFETY, INC. WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. WE RESERVE THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT OUR SOLE DISCRETION. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND.

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, NEGLIGENCE OR ACCIDENT; OR THE DAMAGE IS DUE TO USE OF THE REAR VIEW SAFETY, INC. SYSTEM AFTER PARTIAL FAILURE OR USE WITH IMPROPER ACCESSORIES.

WARRANTY PERFORMANCE

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR REAR VIEW SAFETY PRODUCT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED WHEN THE COMPLETE REAR VIEW SAFETY, INC. PRODUCT IS RETURNED, POSTAGE PREPAID AND INSURED, TO REAR VIEW SAFETY, INC. OTHER THAN THE POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

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DISCLAIMER

REAR VIEW SAFETY AND/OR ITS AFFILIATES DOES NOT GUARANTEE OR PROMISE THAT THE USER OF OUR SYSTEMS WILL NOT BE IN/PART OF AN ACCIDENT OR OTHERWISE NOT COLLIDE WITH AN OBJECT AND/OR PERSON. OUR SYSTEMS ARE NOT A SUBSTITUTE FOR CAREFUL AND CAUTIOUS DRIVING OR FOR THE CONSISTENT ADHERENCE TO ALL APPLICABLE TRAFFIC LAWS AND MOTOR VEHICLE SAFETY REGULATIONS. THE REAR VIEW SAFETY PRODUCTS ARE NOT A SUBSTITUTE FOR REAR VIEW MIRRORS OR FOR ANY OTHER MOTOR VEHICLE EQUIPMENT MANDATED BY LAW. OUR CAMERA SYSTEMS HAVE A LIMITED FIELD OF VISION AND DO NOT PROVIDE A COMPREHENSIVE VIEW OF THE REAR OR SIDE AREA OF THE VEHICLE. ALWAYS MAKE SURE TO LOOK AROUND YOUR VEHICLE AND USE YOUR MIRRORS TO CONFIRM REARWARD CLEARANCE AND THAT YOUR VEHICLE CAN MANEUVER SAFELY. REAR VIEW SAFETY AND/OR ITS AFFILIATES SHALL HAVE NO RESPONSIBILITY OR LIABILITY FOR DAMAGE AND/OR INJURY RESULTING FROM ACCIDENTS OCCURRING WITH VEHICLES HAVING SOME OF REAR VIEW SAFETY PRODUCTS INSTALLED AND REAR VIEW SAFETY AND/OR ITS AFFILIATES, THE MANUFACTURER, DISTRIBUTOR AND SELLER SHALL NOT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INTENDED USE OF THE PRODUCT. IN NO EVENT SHALL REAR VIEW SAFETY AND/OR ITS AFFILIATES HAVE ANY LIABILITY FOR ANY LOSSES (WHETHER DIRECT OR INDIRECT, IN CONTRACT, TORT OR OTHERWISE) INCURRED IN CONNECTION WITH THE SYSTEMS, INCLUDING BUT NOT LIMITED TO DAMAGED PROPERTY, PERSONAL INJURY AND/OR LOSS OF LIFE. NEITHER SHALL REAR VIEW SAFETY AND/OR ITS AFFILIATES HAVE ANY RESPONSIBILITY FOR ANY DECISION, ACTION OR INACTION TAKEN BY ANY PERSON IN RELIANCE ON REAR VIEW SAFETY SYSTEMS, OR FOR ANY DELAYS, INACCURACIES AND/OR ERRORS IN CONNECTION WITH OUR SYSTEMS FUNCTIONS.



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