

Instruction Manual

Backup Camera System With Dual Lens Camera

RVS-813613-NM







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

Congratulations on purchasing a Rear View Backup Camera System!

With this manual you will be able to properly install and operate the unit.

The Backup Camera System is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Backup Camera System 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 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.

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 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.

If you have questions about this product, contact:

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Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use. Keep all cables away from hot/moving parts and electrical noisy components.

We recommend doing a benchmark test before installation to insure that all components are working properly.

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 and wiring have been properly routed, perform a system function test by temporarily connecting the system.

Cable

- 1. Be sure to position the cable properly. The camera cable uses aircraft grade connectors which means the camera cable can be exposed to all weather elements. Do not run the cable over sharp edges, do not kink the cable and keep away from HOT and rotating parts.
- 2. Fasten all cables and secure all excess cable.

Monitor

- 1. To Attach the Pedestal mount to the dashboard or to the head-liner use self-tapping screws and/or the adhesive pad.
- 2. Attach monitor to mount, and adjust mounting angle to allow optimum driver viewing comfort. (see figure 1.1 on page 12)

Wiring

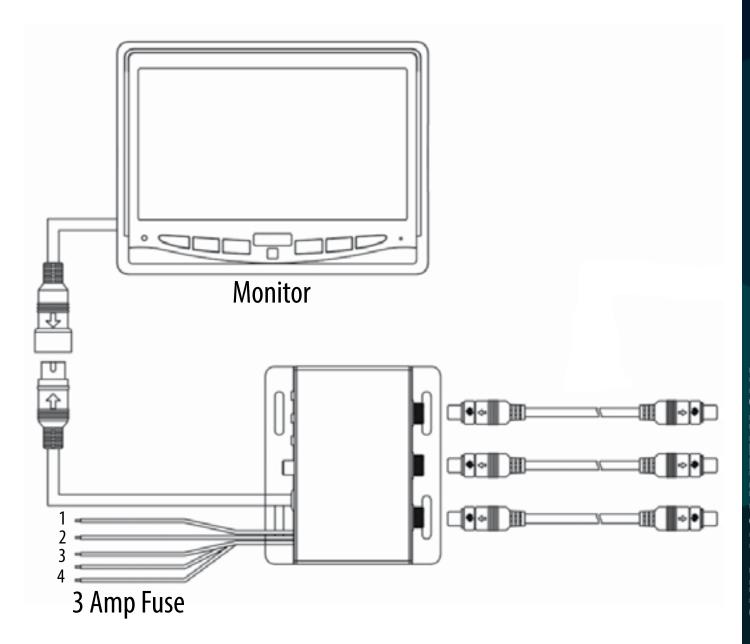
To power the system connect the power (RED) 12V+ wire to ignition power and the ground (BLACK) wire to chassis ground.

- These are the only wires needed to power the entire system and all the cameras. Each camera can be seen at any time by simply pressing the power button and using the V1/2 button to toggle.
- The three positive trigger wires (WHITE-CH1, BROWNCH2, BLUE-CH3) each represent one channel and will turn on their channel when the trigger wire is energized with 12V.
- "Camera 3" is the designated backup channel. To have the backup camera come on when you go into reverse, con-nect the BLUE wire to reverse power (or any power source that comes on only in reverse).
- The other channels can similarly be triggered (i.e. side cam-eras can be triggered by the turn signals etc.)
- To automatically have camera and monitor turn ON when vehi-cle activates, simply twist BLUE positive trigger 12V+ to Red Power line 12V+ and wire to ig-nition power.

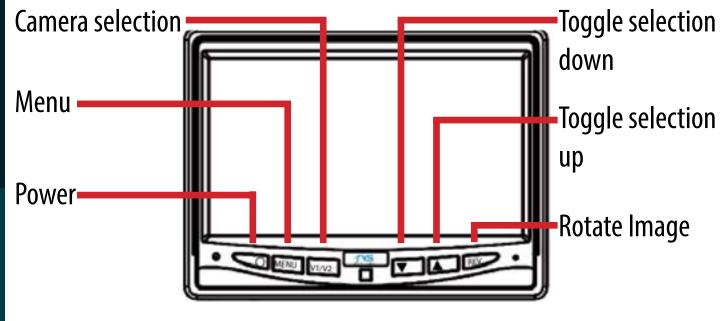
- Audio: There is audio on channels 2 and 3. On channel 3 the blue trigger wire must be energized (12V) to activate the audio. On channel 2 the audio is always on.
- Grid-lines: The grid-lines are also carried through the blue wire. To use the grid-lines for reversing, connect the blue wire to a reverse power.
- There is a built-in voltage regulator for our systems which can handle 12-24 volts. Real consumption is 10 to 30 Volts.

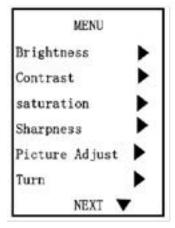


- 1. Red Power (+)
- 2. Yellow Video
- 3. Green Mirror / Normal Imaging
- 4. White Audio
- 5. Black Ground (-)

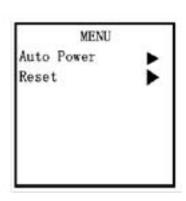


- 1. DC12V-24V (red)
- 2. Ground (black)
- 3. Port #3 (blue)
- 4. Port #2 (white)
- 5. Port #1 (yellow)









- "Brightness" "Contrast "Saturation" "Sharpness": adjust image properties
- Picture Adjust: Stretch image horizontally (right/left and left/right)
- Turn: Toggle between mirror/normal image on each individual channel
- Day/Night: Toggle between back-lit buttons and auto dimming
- Name: Change name of each individual channel
- Trigger Source: Toggle channel destination for each trigger
- Trigger Delay: Adjust time delay on each trigger
- Distance Grid: Toggle which channel distance grid lines will display on
- Grid Position: Adjust grid lines
- Auto Power: On: Monitor will automatically turn on when powered.

 Off: Monitor will only turn on when triggered. Auto: Monitor will follow previous state.
- Reset: Reset settings to factory default









Dual Camera - Perfect for Viewing Traffic and Vehicle Bumper 130° Ultra-Wide all Encompassing View 18 Infra-Red Lights - 9 on Each Camera Completely Waterproof - IP68 Rating Built-in High Gain Mic

Monitor Information

Туре	LED Digital Panel
Screen Size	7"
Dot Resolution	800 X 3 (RGB) X 480
Display Format/Contrast	16:09 / 500:01:00
Display Brightness	400cd/m ²
Video Input	3 channel CVBS
Video Source	1Vp-p, 750
Power Supply	DC 9V - 32V
Power Consumption	5W
Audio Output	0.5W speaker
Operating Temperature	-20°C ~ +70° C
Storage Temperature	-30°C ~ +85°C
Video System	Auto NTSC/PAL
Overall Dimensions	7" (L) x 5.25" (H) x 1" (D)
Weight	400G
Vibration Rating	5G
DOT PITCH	0.1926 (H) X 0.1710 (V)mm
Active Area	154.08(H) X 85.92(v)mm
Sync System	Internal

Camera Information

Camera	1/3" Sony® CCD
Picture Elements	250,000 pixels
Gamma Correction	r=0.45 to 1.0
Image Sensor	480 TV Lines PAL: 500 (H) X 582
lillage Jelisoi	` '
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(V), NTSC: 510 (H) X 492 (V)
View Angle	130°
Lens	2.1mm
Sync System	Internal Synchronization
Infra-red distance	50 Feet (18 Infrared)
Usable Illumination	0 Lux (IR On)
Power Source	DC 9v-32V
S/N Ratio	More than 48dB
Electronic Iris	1/50, 160-1/100,000sec
Video Output	1Vp-p 75 Ω
IR Switch Control	ACDS Automatic Control
Vibration Rating	5.8'
Video Output	1Vp-p, 75 Ω
Shutter Type	Electronic Rolling Shutter (ERS)
Vibration and Shock Rating	20G
Operating Temperature	-40°C ~ +50°C / RH 95% Max
Storage Temperature	-40°C ~ +60°C / RH 95% Max
Dimensions	3.25" (H) x 4" (L) x 2" (D)
Storage Temperature	-40° C ~ +70°C / RH 95% Max

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, NEGLECT 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

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If you have any questions about this product, contact:

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Better Cameras. Better Service. IT'S OUR GUARANTEE.