

## **8883030 Rear Observation System With Cube Night Vision Camera**



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# What's in the Box?

QTY.	Part Included in Kit	Replacement Part
1	Color CCD Infrared Weather Resistant Camera	8883106
1	4.3" OEM Mirror Monitor	
1	Mirror Power Harness	-
1	Camera Power Harness	
1	AV Interconnect Cable	-

# Introduction

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

**Congratulations** on purchasing a Rear Observation System With Camera. With this manual you will be able to properly install and operate the unit.

The Rear Observation System is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Rear Observation 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 in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

# 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 Observation 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 Observation System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.
- The Rear Observation 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 Observation System is limited. It does not display the entire panorama that is behind you.

# Safety Information

- 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 electric 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 install the monitor where it may obstruct drivers view or obstruct an air bag device.
- Dropping the unit may cause possible mechanical/ electrical failure.

## Before Beginning Installation

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 or moving parts and components causing electrical interference.

We recommend doing a bench test before installation to insure that all components are working properly (pg 13).

Plan cable route to ensure enough cable length.

# Before Beginning Installation

## Cable

1. Be sure to route the cable carefully. Where necessary, a 0.8" (20mm) hole should be drilled for passing camera cable through vehicle walls. Install split grommets where applicable. Do not run the cable over sharp edges. Do not kink the cable and keep away from HOT and rotating parts, such as but not limited to, exhaust systems and drive shafts.
2. Fasten and secure all excess cable.
3. Once all cables and wiring have been properly routed, perform a system function test by temporarily connecting the system. If the system seems to not be operating properly see troubleshooting (pg 13).

## Monitor

1. Remove existing mirror. Take care not to pull mirror away from window as this will detach the adhesive bracket. The mirror should slide on the bracket. Depending on the manufacturer, degree of difficulty may vary.
2. Check that the new mirror fits before proceeding.
3. Slide new mirror monitor onto existing base and secure with set screw.
4. The cable will feed up into the headliner.



# Installation Guide

## The Power Harness

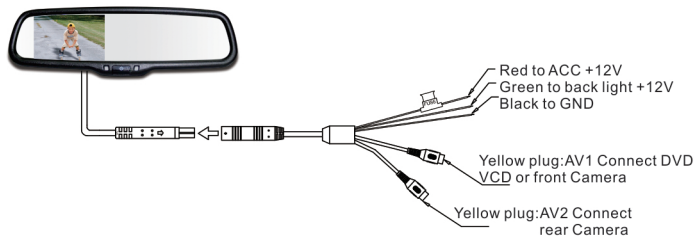
- To power the system connect the power (RED) +12VDC wire to ignition power and the ground (BLACK) wire to chassis ground.
- These are the only wires needed to power the entire system.
- The positive trigger wires will turn on the channel when the trigger wire is energized with +12VDC.
- To have the backup camera come on when you go into reverse, connect the Backup Light +12V wire to reverse power (or any power source that comes on only in reverse).
- To automatically have camera and monitor turn ON when vehicle activates, simply twist Backup Light +12V positive trigger +12VDC to Red Power line +12VDC and wire to ignition power.
- There is a built-in voltage regulator for our systems which can handle 10-30 Volts DC.

**Note:** *The camera and monitor can always be activated by manually pushing the power button on monitor. This is in addition to utilizing the positive triggers.*

**Note:** *If connecting power directly to battery, the camera is always ON and therefore can drain battery. Therefore it is recommended to connect power to an ignition switched accessory power source.*

**Note:** *Included camera does not have built in microphone.*

# Installation Diagram



# Monitor Specifications



Display Size	4.3"
Resolution	480 x 272 pixels
Display Scale	16:9
Brightness	38~160CD/nrf
Input Voltage	DC9~16V(24V need one 24v module)
Input Current	0.3A
Video Input	CVBS (NTSC/PAL)
Backlight	LED
Work Temperature	-4°F ~ 167°F
Store Temperature	-22°F ~ 185°F

# Camera Specifications

Sensor	1/4 CMOS
Resolution (PAL)	656(H)×492(V) pixels
TV Line	420 TV Line
Lens	2.8mm
View angle	120°
S/N Ratio	52dB
Video output	1Vp-p 75Ω
Water Resistant	IP68
Impact Rating	20G Vibration/10G shock
Operation Temperature	-4°F ~ 167°F

## **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.
- Check to ensure that the connection to the camera is tight.
- Verify camera cable is plugged into camera port
- Verify that the trigger on power harness is put to power +12VDC.
- If the problem still persists, verify that alternate ports work. If alternate ports do not work, remove trigger wire from +12VDC and select alternate channels.

## **Monitor Will Not Power-Up (no backlight on power)**

- Check fuse
- Check +12VDC connection
- Check ground connection
- Try power and ground direct to battery

## **No Image On Screen**

- Verify camera is on correct camera input
- Verify cable is connected to monitor
- Verify camera is connected to cable
- Connect known working camera and cable to monitor
- Verify trigger source is supplying power

# Warranty

## **Two Year Warranty**

Buyers Products Company, Inc. warrants this product against material defects for a period of two years from date of purchase. We reserve the right to repair or replace any such defective unit at our sole discretion. Buyers Products Company, Inc. is not responsible for a defect in the system as a result of mis-use, improper installation, damage or mishandling of the electronic components. Buyers Products Company, 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 Buyers Products Company, Inc. system after partial failure or use with improper accessories.

## **Warranty Performance**

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

## **Warranty Disclaimers**

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