

# Rear Vision Camera System

## Rugged. Designed For Extreme Environments.



### Key Features & Benefits

#### Camera

Ruggedized with vandal resistant metal housing

Water Proof (IP 67)

Wide viewing angle - 150°

18 integrated infrared night vision IR LED's  
Optional billeted camera cover

#### Monitor

7 inch or 9 inch LCD flat panel monitor

Operator can view camera views full screen, quad view or sequentially

Automatically display a specific camera with external 12V trigger

Option to simultaneously display camera images and record video using optional DVR

### Applications

School Buses

Transit

Transportation and Logistics

Law Enforcement

First Response

Taxi

Conventional Rear Vision Cameras can be damaged by vehicle washing brushes. Gatekeeper's Rear Vision Camera was designed with 10 Gage T6 aluminum, making it lightweight and virtually indestructible in any rear vision application.

#### Complete System

The Gatekeeper Rear Vision System comes complete with a color exterior camera, LCD viewing monitor and cabling to allow for an easy installation.

#### Clear Imaging - Even in Complete Darkness

The camera is IP 67 rated and produces a reversed image for correct viewing orientation. The camera has a wide angle lens (150° viewing angle) and comes with 18 IR LED's to provide illumination in complete darkness. An optional billeted

shroud is available for the camera. The shroud provides additional protection for the camera when the vehicle is subject to automated wash racks with spinning brushes.

#### Displays Specific Cameras

A LCD flat screen monitor is available in either 7" or 9" sizes. The monitor has a built in quad switcher and external trigger lines that when activated (+12V nominal) will cause the monitor to display a specific camera image. For example, the rear camera can be displayed when the vehicle is in reverse or the camera over a specific door displayed when the door is opened. When a camera trigger signal is removed the display will revert back to the users previously selected camera view.



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## Multi-Camera Function

Using one of the four video inputs for the reverse facing cameras, up to three additional cameras can be connected to the monitor. For example, 3 additional interior cameras can be displayed. The operator controlled monitor can display a single camera full screen, up to 4 four cameras in a quad view format, or cycle through the 4 cameras sequentially. Optionally available are Y cables. The Y cable allows video to be simultaneously viewed on the monitor and recorded by a DVR located in the vehicle. It is also possible to configure the monitor to view previously recorded video from the DVR.

## Specifications

### Rear Vision Camera System

#### Camera Specifications

Imaging Sensor	Sony CCD Color
Processor	Sony
Minimum Illumination	0.0LUX/F1.2 (IR on)
Resolution	420 TVL
Effective Pixels	510 (H) x 492 (V)
Video Output	1.0V P-P/75Ω, NTSC
Audio	Supports 4 camera audio simultaneous inputs (optional)
IR	18 LED's
Available Lenses	f=2.5, 1.77mm
Voltage	12v nominal
Exterior Dimensions	(L x W x H) 2.75" x 2.2" x 1.7" (72mm x 52mm x 42mm) .77 lbs (350 g)
Operating Temperature	-4°F to +158°F (-20°C to +70°C)
Operating Humidity	Under 90% (Non-Condensing)
Adaptor Plates:	Fixed 150°

#### Monitor Specifications

Physical Dimension	7.2" (L) x 1.6" (W) x 4.9" (H) (182(L) X 40(W) X 124(H) mm)
Screen Display	7" or 9" inch Digital Color LCD Quad

#### Languages Cameras

#### Resolution TV System Brightness Viewing Angle Up: Control Voltage Control

#### Operating Temp. Storage Temp.

Multiple language support  
Supports 4 cameras video simultaneous input single, dual, triple, quad image – user selectable  
Normal or mirrored picture can be switched separately for each camera  
800 x 3 x (RGB) x 480 500:1  
NTSC/PAL  
400cd/m2  
50°, Down: 60°, Right/Left 70°  
Panel or remote control (optional)  
12-32V  
External trigger control (+12v nominal) for each camera and will revert to original view when trigger is removed. Trigger delay time can be adjusted (1-5s) per camera. In standby mode, monitor will turn on automatically when triggered.  
Internal DC short circuit protection.  
14°F - 150°F (-10°C - +65°C)  
-22°F - 176°F (-30°C - +80°C)

Specifications subject to change without notice.