



# Operator Awareness Camera System

## SPECIFICATIONS

### Monitor

LCD System	7-inch, LED backlight
Field of View	Top: 30°, Bottom/Left/Right: 60°
Auto Dimmer	Selectable auto/manual
OSD Controls	Bright, Contrast, Color, Tint, Image select CA1 (mirror view/true view), Auto scan time, Scale on/off
Resolution	1440 x 234
Impact Rating	6G
Sync System	Internal
Power Requirement	12 VDC provided by control box
Power Consumption	10W
Operating Temperature	4° F - 158° F (-20° C - 70° C)
Storage Temperature	-22° F - 185° F (-30° C - 85° C)
Dimensions (w x h x d)	7.8 in. x 5.4 in. x 1.3 in. (197 mm x 138 mm x 32.2 mm)
Weight	2.2 lbs. (1.0 kg)

### Color or Black and White Camera

Image Sensor	1/3 inch interline transfer CCD
Signal Format	NTSC
Picture Elements	270,000 pixels
Field of View	130°
Sync System	Internal
Horizontal Resolution	480 TV lines (color) 380 TV lines (black and white)
Minimum Illumination	0 lux
Signal-to-Noise Ratio	50 dB minimum (color – AGC off) 47 dB minimum (black and white – AGC off)
Impact Rating	10G
Power Requirement	12 VDC provided by control box
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Dimensions	2.7" W x 1.6" H x 2.0" D (69 mm x 41 mm x 50.7 mm)
Weight	0.80 lb. (0.3 kg)



The Matrix Operator Awareness Camera System supports four standard or shuttered cameras with switchable camera views for the most complete visual coverage of your vehicle. The camera's infrared illuminators automatically activate as needed, which delivers optimal image quality.

When vehicle starts, or is placed in reverse, the system auto-activates. The camera's built-in microphone allows people behind the vehicle to verbally alert the operator of any possible hazards.

## Features

- LED backlight produces brighter images and consumes less power
- The multi-display mode monitor with electronic distance grid has four camera inputs with switchable camera views
- Camera has an integrated auto-iris and microphone with water-resistant housing
- Eleven advanced infrared illuminators with automatic sensor provide better image quality in low-light conditions

## Control Box



Power Requirement: 10 ~ 32 VDC  
 Operating Temperature : 14°F ~ 176°F  
 Dimensions: 6.1 in. x 1.1 in. x 4.6 in.

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# Operator Awareness Camera System Picture-in-Picture Display



The systems rugged 7" video monitor is designed to withstand the shock and vibration demands of in-vehicle monitoring. The heavy-duty housing is rated to withstand shocks up to 10Gs, allowing the video monitor to be used in a variety of vehicle applications. This is an ideal monitoring solution for fleet vehicles.

## SPECIFICATIONS

### P-I-P Monitor

LED Screen Size	7" Wide Diagonal
Display Dimensions	152.4 × 91.44 mm
Power Input	DC 12 to 30 Volt Free Input
Power Consumption	12 Watt Max
Video System	NTSC / PAL / SECAM Auto Detection
Sync. System	Internal
Brightness	400 cd/m2
Display Resolution	800 × 480 Pixel
Viewing Angle	Top: 50. Bottom: 60. Left: 65. Right: 65.
Color Conguration	RGB Stripe
Dimmer	Automatic / Manual
Speaker Impedance	8 ohm, 0.3 Watt Max
Operating Temperature	-25°C to approx. 75°C
Storage Temperature	-30°C to 85°C
Impact Rating	10G
Camera Connector	4-pin mini DIN
Housing	Soft black / Pearl gray(ABS)
On-Screen Display	Volume - Brightness - Color
Control Functions	Contrast - Tint CAM Screen 1/2/3/4 - CAM Trigger 1/2/3/4 - Dimmer · Language - Direction - Reset
Dimensions	7.48" W × 5.59" H × 1.69" D
Weight	0.9 lbs

### Warranty

Matrix's standard warranty for new items is one year. Extended warranties and advance replacement agreements also are available. Ask your sales or customer service representative for details.

### Picture-in-Picture Display

Features an innovative picture-in-picture (PIP) function to optimally display three camera images at once, allowing the driver to focus on one camera while keeping an eye on two additional views. The monitor can also display one, two, three, or four cameras at once in traditional split screen modes. These views can be quickly toggled with a convenient Camera Select button on the front panel.

### Integrated Audio

The system activates when the vehicle starts or when the vehicle is placed in reverse. With the camera's built-in microphone, people behind the vehicle can communicate directly with the operator about possible hazards.

### Features

- Auto NTSC/PAL detection
- Auto day/night detection
- Rugged housing rated for 10Gs
- High contrast screen
- Seven menu language options
- Integrated control box with multiple display options and intuitive menus

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