



## ▶ Reverse Camera/Monitor Systems

### FEATURES

- High-resolution Sony CCD camera for outstanding image quality.
- 5.6" or 7" color TFT-LCD monitors available.
- Rear camera 4.3" color monitor available
- Versatile solution that works with a variety of applications.
- Multiple camera cable lengths available.
- Multi-voltage capability.
- Two-year limited warranty.

Reverse Camera/Monitor Systems, from Federal Signal, provide the driver with an expanded field-of-view for enhanced safety during back-up or while maneuvering the vehicle in challenging environments. With a variety of cameras, monitors, and mounting options available, Reverse Camera/Monitor Systems has a solution for almost any vehicular application.



CAMSET56-NTSC-2



CAMSET70-NTSC4B

SPECIFICATIONS



**CAMCCD-REARNTSC**

**CAMCCD-SIDENTSC**

**CAMCCD-FLSHNTSC**

**CAMCCD-BALLNTSC**

| Camera Specifications  |                                      |                                      |                                      |                                      |
|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Voltage                | 12 VDC                               | 12 VDC                               | 12 VDC                               | 12 VDC                               |
| Power Consumption      | < 2.5 W                              | < 1.5 W                              | < 1.2 W                              | < 1.5 W                              |
| Low-light/Night Vision | 16 Infrared LEDs with photosensor    | 9 Infrared LEDs with photosensor     | N/A                                  | 9 Infrared LEDs with photosensor     |
| Microphone             | Integrated                           | Integrated                           | N/A                                  | Integrated                           |
| Environmental Rating   | IP68 (waterproof and dust-resistant) | IP68 (waterproof and dust-resistant) | IP68 (waterproof and dust-resistant) | IP68 (waterproof and dust-resistant) |
| Operating Temp. Range  | -22°F to 149°F (-30°C to 65°C)       | -22°F to 149°F (-30°C to 65°C)       | -22°F to 149°F (-30°C to 65°C)       | -22°F to 149°F (-30°C to 65°C)       |

| Physical Specifications |   |   |  |   |
|-------------------------|---|---|--|---|
| Dimensions              | 3.40 in x 2.87 in x 2.32 in (8.64 cm x 7.29 cm x 5.89 cm) | 2.56 in x 3.74 in x 2.54 in (6.50 cm x 9.50 cm x 6.45 cm) | 1.87 in x 1.57 in x 2.13 in (4.75 cm x 3.99 cm x 5.41 cm) with U-bracket | 3.05 in x 2.50 in x 2.01 in (7.75 cm x 6.35 cm x 5.11 cm) |
| Weight                  | 0.84 lb (0.38 kg)   | 0.39 lb (0.18 kg)   | 0.44 lb (0.20 kg)  | 0.34 lb (0.15 kg)   |



**CAMCCD-DOMENTSC**

**CAMCCD-COMREAR**

**CAMCCD-REARMIR**

**CAMCCD-REARMIR-NIR**

| Camera Specifications  |  |                                       |                                       |                                       |
|------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| Voltage                | 12 VDC   | 12 VDC                                | 12 VDC                                | 12 VDC                                |
| Power Consumption      | < 2.5 W  | < 2.0 W                               | < 2.5 W                               | < 2.5 W                               |
| Low-light/Night Vision | 18 Infrared LEDs with photo sensor                             | 8 Infrared LEDs with photo sensor     | 15 Infrared LEDs with photo sensor    | NA                                    |
| Microphone             | Integrated   | Integrated                            | Integrated                            | Integrated                            |
| Environmental Rating   | IP65 (water- and dust-resistant; not intended for outdoor use) | IP68 (water proof and dust-resistant) | IP68 (water proof and dust-resistant) | IP68 (water proof and dust-resistant) |
| Operating Temp. Range  | -22°F to 149°F (-30°C to 65°C)                                 | 30°F to 158°F (-22°C to 70°C)         | -22°F to 158°F (-30°C to 70°C)        | -22°F to 158°F (-30°C to 70°C)        |

| Physical Specifications |   |   |  |  |
|-------------------------|---|---|--|--|
| Dimensions              | 4.09 in x 4.09 in x 2.82 in (10.39 cm x 10.39 cm x 7.16 cm) | 1.3 in x 1.3 in x 1.6 in (3.4 cm x 3.4 cm x 4.0 cm) | 3.43 in x 2.76 in x 2.34 in (8.7 cm x 7.0 cm x 6.0 cm) | 3.43 in x 2.76 in x 2.34 in (8.7 cm x 7.0 cm x 6.0 cm) |
| Weight                  | 0.85 lb (0.39 kg)   | 1.43 lb (0.65 kg)                                   | 0.76 lbs (0.34 kg)                                     | 0.76 lbs (0.34 kg)                                     |

## SPECIFICATIONS



|                                | CAMCCD-CHMSL   | CAMCCD-FLS2NTSC                          |
|--------------------------------|--|--|
| <b>Camera Specifications</b>   |  |  |
| Voltage                        | 12 VDC   | 12 VDC                                   |
| Power Consumption              | < 3 W  | < 1.2 W                                  |
| Low-light/Night Vision         | NA   | 10 Infrared LED switch with photo sensor |
| Microphone                     | Integrated   | NA                                       |
| Environmental Rating           | IP68   | IP68                                     |
| Operating Temp. Range          | -22°F to 158°F<br>(-30°C to 70°C)                        | -22°F to 158°F<br>(-30°C to 70°C)        |
| <b>Physical Specifications</b> |  |  |
| Dimensions                     | 13.3 in x 3.8 in x 5.6 in<br>(33.8 cm x 3.8 cm x 5.6 cm) | 1.84 in x 1.38 in<br>(4.7 cm x 3.5 cm)   |
| Weight                         | 0.40 lbs (0.20 kg)                                       | 0.44 lb (0.20 kg)                        |

## OPTIONAL ACCESSORIES



CAMLCD-MIR

### Rearview Mirror Monitor

CAMLCD-MIR

- Displays image on a 4.3 inch screen
- Includes harness for up to two camera connections
- Allows for customization of package



CAMADP-DWL

### Wireless Module

CAMADP-DWL

- Includes a transmitter and receiver
- Compatible with reverse camera offerings
- Transmission range can extend up to 650 ft.
- Makes installation easier
- Eliminates the need to have large extension cables

**Reverse Camera/Monitor Systems**

|                 |   |
|-----------------|---|
| CAMSET56-NTSC-2 | 5.6" Monitor with two-camera input, (1) standard rear-view camera, (1) 65.5-ft extension cable  |
| CAMSET70-NTSC4B | 7.0" Monitor with four-camera input, (1) standard rear-view camera, (1) 65.5-ft extension cable |

**Individual Components**

**Monitors**

|                 |   |
|-----------------|---|
| CAMLCD-INT-56   | 5.6" TFT-LCD monitor with two-camera input integrated control box without split-screen capability |
| CAMLCD-INT-70-B | 7.0" TFT-LCD monitor with four-camera input integrated control box with split-screen capability   |
| CAMLCD-MIR      | 4.3" TFT-LCD rear view mirror monitor with two camera inputs                                      |

**Cameras**

|                    |   |
|--------------------|---|
| CAMCCD-REARNTSC    | Standard rear-view CCD camera with night vision and audio, NTSC compatible        |
| CAMCCD-SIDENTSC    | Side-view CCD camera with night vision and audio, NTSC compatible                 |
| CAMCCD-FLSHNTSC    | Bullet/Flush-mount CCD camera, includes bracket, NTSC compatible                  |
| CAMCCD-BALLNTSC    | Ball CCD camera with night vision and audio, NTSC compatible                      |
| CAMCCD-DOMENTSC    | Dome CCD camera with night vision and audio, for indoor use only, NTSC compatible |
| CAMCCD-REARMIR     | Mirroring rear view camera with night vision and audio                            |
| CAMCCD-REARMIR-NIR | Mirroring rear view camera with audio, No Infrared LEDs                           |

|                  |  |
|------------------|--|
| CAMCCD-COMREAR   | Compact mirroring rear view camera with night vision and audio |
| CAMCCD-CHMSL     | Sprinter brake light with built-in camera                      |
| CAMCCD-FL S2NTSC | Bullet/Flush-mount CCD camera with IR LEDs, NTSC compatible    |

**Cables**

|                |  |
|----------------|--|
| CAMCABLE-SHORT | 4-inch camera extension cable                  |
| CAMCABLE-5     | 5-m/16.5-ft camera-to-monitor extension cable  |
| CAMCABLE-10    | 10-m/33-ft camera-to-monitor extension cable   |
| CAMCABLE-15    | 15-m/49-ft camera-to-monitor extension cable   |
| CAMCABLE-20    | 20-m/65.5-ft camera-to-monitor extension cable |
| CAMCABLE-40    | 40-m/131-ft camera-to-monitor extension cable  |
| CAMCABLE-TRK   | Truck/Trailer cable set                        |

**Accessories**

|                |   |
|----------------|---|
| CAMADP-EXT     | Camera cable adapter for connecting (2) extension cables together |
| CAMADP-RCA-OUT | System adapter for connecting external RCA input                  |
| CAMBRK-HD      | Heavy-duty monitor mount  |
| CAMLCD-BRACKET | Mounting bracket, monitor   |
| CAMADP-DWL     | Module, wireless link for camera                                  |

**Replacement Parts**

|              |   |
|--------------|---|
| CAMADP-INT-2 | Replacement wiring harness, CAMLCD-INT-56   |
| CAMADP-INT-4 | Replacement wiring harness, CAMLCD-INT-70-B |

