COMMERCIAL VISION SYSTEMS

Superior Commercial Camera and Monitor Solutions
Clarion is a Leading Global Manufacturer of Commercial In-Vehicle Vision Systems

As a world leader in the development and manufacturing of in-vehicle mobile electronics, Clarion has always been at the forefront of technological evolution. Our years of experience — including more than four decades of development of in-vehicle camera systems — has given us the expertise that no one can match. And nowhere is that expertise more important than in the design of commercial vision monitoring systems.

Clarion’s reliability is backed up by one of the world’s most rigorous production quality assurance systems. We know that our in-vehicle equipment must perform consistently and reliably no matter what the application. Whether it’s a garbage truck, bus, truck, forklift, agricultural, construction, or maritime machinery, we build it to exceed your expectations.

Clarion’s state-of-the-art computer design system can simulate various climatic conditions and every product goes through a wide range of quality control tests. Only when products pass these tests, are they entitled to bear the Clarion insignia and be delivered to our customers around the world. Thanks to advanced automation, Clarion’s factories produce 50,000 in-vehicle CCD and CMOS cameras for both commercial and passenger cars in countries around the world each-and-every month. When it comes to in-vehicle electronics and vision systems... think Clarion first for legendary quality you can rely on.
Built to Meet the Most Rigorous Commercial Vehicle Challenges

Water Resistance
Clarion’s dual chamber design and precision O-ring seals prevent water penetration regardless of what Mother Nature throws at it. The cameras are examined for water penetration to ensure watertight integrity.

Operational Shock Resistance
Built to last! Clarion cameras are designed to withstand up to a 10G (G-Force) shock.

Thermal Shock Resistance
Cycled from -40°C to +85°C, Clarion cameras are put through the gauntlet. These tests are intended to expose any problems with solder joints, the PC board, and the aluminum housing.

Repetition Durability Test
Clarion examines the durability of movable parts, such as the shutter opening/closing and monitor controls by conducting more than 50,000 operational tests.
Main Features

- Rugged, reliable and durable, high-quality camera system is built from the ground up with all-original parts.
- Incorporates a new-generation 330k-pixel CMOS sensor with high contrast and improved nighttime images with reduced noise.
- Cylindrical design with minimum depth for convenient installation.
- Rugged, high-grade die-cast aluminum body for long-term durability.
- Protective front glass keeps dirt and snow off the lens coating to assure image quality, as well as preventing scratching when the lens is cleaned.
- Significant weight reduction when combined with the NC connector: CC6500E — 40% reduction (compared with the CC2001F); CC6600E — 46% reduction (compared with the CC2000E).
- Innovative new design has replaced the cable section on the back of the camera with a single connector, increasing waterproofness and durability to comply with IP69K in addition to the CC1601A.
- Fluoropolymer-coated shutter helps reduce adherence of dirt and snow (CC6500E only).

### Model Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Number of Pixels</th>
<th>View Angle (horiz./vert.)</th>
<th>CMOS Size</th>
<th>Low Light Rating (LUX)</th>
<th>Operating Temperature Range</th>
<th>Vibration Rating (G-force)</th>
<th>Size (W x H x D mm)</th>
<th>Weight (g)</th>
<th>Waterproof Capability</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC6500E</td>
<td>330,000</td>
<td>118/98</td>
<td>1/4 inch</td>
<td>1 lux (at 50 IRE)</td>
<td>-30°C to +70°C</td>
<td>6.8G</td>
<td>77 x 38 x 55 (including connector protrusion)</td>
<td>Approx. 180g (including cable)</td>
<td>IP69K</td>
<td>Mounting Bracket, Camera Cover, Screws</td>
</tr>
<tr>
<td>CC6600E</td>
<td>330,000</td>
<td>118/98</td>
<td>1/4 inch</td>
<td>1 lux (at 50 IRE)</td>
<td>-30°C to +70°C</td>
<td>6.8G</td>
<td>77 x 38 x 51.4 (including connector protrusion)</td>
<td>Approx. 140g (including cable)</td>
<td>IP69K</td>
<td>Mounting Bracket, Camera Cover, Screws</td>
</tr>
</tbody>
</table>

### Cables for CC6500 Series

- **Waterproof Camera Cables**
  - (7m) CCA792
  - (15m) CCA795
  - (20m) CCA797

- **Waterproof Extension Cables**
  - (0.9m) CCA799
  - (5m) CCA800
  - (10m) CCA801

- **Adaptor Cable**
  - (0.2m) CCA789
  - Connects New series Cable to Old series Monitor
  - Converts conventional DIN ND connector

- **Adaptor Cable**
  - (0.3m) CCA789
  - Connects Old series Cable to New series Monitor
  - Converts conventional DIN ND connector

- **Adaptor Cable**
  - (0.3m) CCA789
  - Connects Old series Cameras to New series Cable

- **Adaptor Cable**
  - (0.3m) CCA789
  - Connects New series Camera to Old series Cable
  - Converts CC2000 Series cable NC connector

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**New Products ADVENTS HEAVY DUTY CMOS COLOR CAMERAS**

All-new flagship model built tough to handle rough conditions with a front protection shutter, while delivering superb images with minimal distortion and ghosting.

Offering big performance in a compact design, this camera boasts our latest lens system, which effectively suppresses both distortion and ghosting.
7" WIDESCREEN DIGITAL LCD MONITOR

Lightweight narrow-frame monitor maximizes driving visibility and enables quad display when combined with the EA2182A.

NEW

CJ7600E
7" Widescreen Digital LCD Monitor

System configuration

- Front-panel buttons operable even when the monitor is mounted in-dash.
- On-screen distance marker compatible with 118°/130°/160° cameras.
- Backup connection that completely closes the camera shutter.
- Main and sub images can be set to normal or mirror (left/right inversion) respectively.
- Hazard light triggered function.
- Compact ND connector with locking mechanism.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Screen Size (inches)</th>
<th>Power Supply</th>
<th>Power Consumption</th>
<th>Operating Temperature Range</th>
<th>Size (W x H x D mm)</th>
<th>Weight</th>
<th>Camera Inputs</th>
<th>Audio Input</th>
<th>Output Terminal</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ7600E</td>
<td>7</td>
<td>DC 12V/24V</td>
<td>Approx. 5W (24V DC, with CC6600E connected)</td>
<td>-10°C to +60°C</td>
<td>188 x 110.5 x 28</td>
<td>Approx. 400g</td>
<td>2</td>
<td>Yes</td>
<td>No</td>
<td>Monitor cable</td>
</tr>
</tbody>
</table>

4 CAMERA CONTROL BOX

Connects 4 cameras to CJ7600E or stand-alone monitor.

NEW

EA2182E
4 Camera Control Box

- Maximum 5 camera and 2 AV input is possible when combined with the CJ7600E.
- Stand-alone mode that provides quad display when connected to a standard monitor.

Note: The optional remote control and sensor are required.

- Timer function that automatically scrolls images in the quad display at selected intervals.
- External trigger lead that can call up 2, 3, or 4 screen image displays.
- Hazard light triggered function.
- Compact ND connector with locking mechanism.

RCB211 Wireless remote control
CCA787 Remote control sensor

4-screen display

Model No. | Power Supply | Power Consumption | Operating Temperature Range | Size (W x H x D mm) | Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EA2182E</td>
<td>DC 12V/24V</td>
<td>Approx. 5W (24V DC, with CC6600E x 4 connected)</td>
<td>-10°C to +60°C</td>
<td>208 x 110 x 45</td>
<td>Approx.630g</td>
</tr>
</tbody>
</table>
SAFE DRIVING SUPPORT SYSTEM for TRUCKS

By analyzing and synthesizing images from multiple On-Vehicle cameras, this system is able to simulate and display blind spots to support safer driving.

Driving support

All-round bird’s-eye view systems popular in passenger cars are mainly aimed at providing support for parking. However, professional truck drivers are looking for a system that supports safe driving by helping to prevent the vehicle from running over unseen objects when driving forward or in reverse, as well as helping to avoid various other potential hazards.

Blind spot support

Even with proper adjustment of side-view mirrors, potential blind spots often exist just to the left and behind the driver’s seat in a truck, leading to the possibility of side swipes and collisions.

Even with proper adjustment of side-view mirrors, potential blind spots often exist just to the left and behind the driver’s seat in a truck, leading to the possibility of side swipes and collisions.

Camera mounting positions

- 2 Cameras
  1. Left side: CC6300E (160° true image)
  2. Rear center: CC6300E (160° true image)

- Display interlocking
  Backup signal / Left turn signal / Right turn signal

Applicable trucks

- Small-size trucks (Total length: 4.5 to approx. 7 m)*
- Medium-size trucks (Total length: 7 to 10 m)*
  * With total width of approx. 2.4 m or less

Note: The positions shown are for a right-hand drive vehicle. They will be opposite with a left-hand drive vehicle.

Basic system configuration

- By enabling the driver to view both wide and distant images on the passenger side, this system allows the driver to assess at a glance the relationship between the vehicle and the surrounding conditions.
- When turning to the driver side, the driver will be able to see a fast-approaching vehicle in the lane on the passenger side even when it is still far away.
- A comprehensive bird’s-eye-view system that is practical, reliable, easy-to-install, and affordable.

2 Cameras — when driving (normal image)

- Double-display of blind spots on the passenger side and rear
- Display switching

2 Cameras — when turning right and left

- Display switching

Coverage provided by the in-vehicle bird’s-eye-view system (conceptual diagram)

Distant objects can be seen at a glance, and blind spots on the passenger side can be observed in wide view and at a distance.

Note: The photos shown above are simulated and differ from the actual images shown on the switched displays.

Note: The photos shown above are simulated and differ from the actual images shown on the switched displays.
SAFE DRIVING SUPPORT SYSTEM for ROUTE BUSES

Because it enables bus drivers to confirm at a glance that conditions around the bus are safe when starting and stopping, as well as facilitating monitoring of passenger activity around the middle door, this system is an excellent choice for route buses.

**Confirmation of vehicle safety**

Ensuring that conditions are safe in and around the vehicle when starting or stopping is critical for transit system bus drivers. With mirrors and visual inspection only, it can be difficult for drivers to make sure that disembarked passengers are not walking around the bus or that there are no children playing around the bus.

**Approaching the bus stop**

Many types of accidents can occur as a bus approaches a bus stop, such as when the bus scrapes a guardrail or a fixture or hits a bicycle coming up from behind when the driver pulls in too close to the bus stop.

**Getting on and off**

Ensuring that conditions are safe in and around the vehicle when starting or stopping is critical for transit system bus drivers. With mirrors and visual inspection only, it can be difficult for drivers to make sure that disembarked passengers are not walking around the bus or that there are no children playing around the bus.

**Basic system configuration**

**Camera mounting positions**

![Diagram of camera mounting positions]

- Front camera
- Rear camera
- Left/right corner camera
- Relay cable
- Monitor
- ECU
- Image selection switch

**Applicable Buses**

- Buses with middle doors
  (Total length: Approx. 9 to 12 m)

**NEW**

- SurroundEye Camera Controller
  EG2300E

- Ultra Wide Angle Compact CMOS Camera
  (160° True Image)
  CC6300E

- Selector Switch
  RCB210

- Calibration Software and Interface Module
  UG2176A

For use when setting up the SurroundEye System, this dedicated calibration tool makes it easy to calibrate the system after the camera and ECU are mounted.

ALL ITEMS ARE SPECIAL ORDER
Clarion also offers a wireless solution with its WLAN wireless camera system simplifying installation and adding flexibility.

Advantages of Clarion Wireless Camera Systems
Clarion wireless cameras share many common features, as well as individual benefits.
1. Reduces costs of video cables and cable installation.
2. Easier Camera System integration when regularly switching trailers (WLAN).
3. Short video signal delay (WLAN 100msec, under ideal conditions).
4. Heavy duty design, built to meet rigorous commercial vehicle standards.

CC3500E/EE2178E
• Minimized video signal transmission delay.
• Easy pairing operation.

WLAN 2.4GHz DIGITAL WIRELESS CAMERA AND RECEIVER SYSTEM
Digitally transmitted images over WLAN provide safety and convenience while driving.

NEW
CC3500E
Digital WLAN Camera with Transmitter
• Reduces the installation costs of connecting cables.
• Transmitter is built into the camera.
• Wireless standard: IEEE802.11b/g.
• Very short signal delay: Approximately 100 milliseconds under ideal conditions.
• Easy pairing operation: Just press pairing button and select the camera to be paired on monitor.
• Allows for connecting with existing monitor with composite video input.

Recommended vehicle types: Mini-Van, Small Trucks, Forklift.

NEW
EE2178E
Digital WLAN Receiver

In the CC3500E/EE2178E System configuration, the camera and receiver are paired to ensure seamless operation.

Application example
Crane
Camera with transmitter

Pairing function
User-friendly paring function between the camera and receiver

---|---|---|---|---|---|---|---|---|---|---|---|---|---|
CC3500E | DC 12V/24V | Less than 250mA (DC 12V) | 1/3.6" | Less than 1.0 | 115/85 | IEEE 802.11b/g | 2.4GHz band | - | -30°C to +70°C | 6.8G | 80 x 50 x 58.23 | IP67 | Antennas, mounting bracket |
EE2178E | DC 12V/24V | Less than 200mA (DC 12V) | - | N/A | - | NTSC | -20°C to +70°C | 4.4G | 93 x 24.5 x 108 | Non-waterproof | | | Pairing switch, RCA cord, Power supply cord, Mounting bracket |
NEW

IR ILLUMINATED COMPACT COLOR CCD CAMERA

Dynamic Range Function and infrared illuminators improve the driver’s visibility in the darkest of situations.

CC2020E

IR Illuminated Color CCD Camera (Mirror Image/Wide Angle)

- Dynamic Range Function improves the camera image clarity in both light and dark situations.
- Built-in 5 Infrared Emitters. • Built-in microphone.
- Built-in heating element ensures the camera is ready for use at all times.
- Weather-Resistant Die-Cast Aluminum Housing. • Electronic Iris.
- Can also be connected to a universal monitor with a composite (RCA) input terminal via the dedicated conversion cable (CCA730). (12V vehicles only)

Application example

- Combine harvester

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Number of Pixels</th>
<th>View Angle (horiz./vert.)</th>
<th>CCD Size</th>
<th>Low Light Rating (LUX)</th>
<th>Operating Temperature Range</th>
<th>Vibration Rating (G-force)</th>
<th>Size (W × H × D mm)</th>
<th>Weight</th>
<th>Waterproof Capability</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC2020E</td>
<td>250,000</td>
<td>120/90</td>
<td>1/4&quot;</td>
<td>0.01 (LED ON)</td>
<td>-30°C to +70°C</td>
<td>6.8G</td>
<td>64.6 × 48.2 × 55.8</td>
<td>Approx. 180g</td>
<td>IP68</td>
<td>Stainless Steel Cover &amp; Bracket</td>
</tr>
</tbody>
</table>

Application example

- Recreational vehicle

 CC4100E

Ultra Compact Color CMOS Camera

- Excellent 130° wide angle view minimizes blind spots.
- Designed to withstand severe vibrations.
- Compact and lightweight design for easy installation.
- Electronic Iris.
- Heavy duty stainless steel cover and mounting bracket included.

Application examples

- Forklift
- Sweeper

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Number of Pixels</th>
<th>View Angle (horiz./vert.)</th>
<th>CMOS Size</th>
<th>Low Light Rating (LUX)</th>
<th>Operating Temperature Range</th>
<th>Vibration Rating (G-force)</th>
<th>Size (W × H × D mm)</th>
<th>Weight</th>
<th>Waterproof Capability</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC4100E</td>
<td>307,200</td>
<td>130/99</td>
<td>1/4&quot;</td>
<td>Less than 3.0</td>
<td>-30°C to +70°C</td>
<td>6.8G</td>
<td>23.4 × 23.4 × 22</td>
<td>Approx. 80g</td>
<td>JIS D0203 S2*</td>
<td>Stainless Steel Cover and Bracket</td>
</tr>
</tbody>
</table>

www.clarion.com
**LCD COLOR MONITORS (OLDER GENERATION)**

**7” WIDESCREEN DIGITAL COLOR LCD MONITOR**

Large 7” digital widescreen monitor delivers sharp, clear images in a sleek, stylish design that fits attractively in your vehicle’s interior.

**CJ7100E**

7” Widescreen Digital Color LCD Monitor  
(Compatible with both DC 12V/24V)

- Digital LCD panel delivers high picture quality.
- Built-in camera power supply and two camera switcher.
- LED Backlighting.
- True/Mirror image switching function.
- Automatic camera switching with reverse gear and turn signal inputs.
- Built-in speaker (works in combination with the CC2020E’s microphone).
- Composite Audio/Video input.
- NTSC/PAL Compatible.
- 7 Languages (English/French/German/Italian/Spanish/Korean/Japanese) display selection.
- Color, Brightness, and Contrast controls.
- Wireless remote control included.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Screen Size (inches)</th>
<th>Power Supply</th>
<th>Power Consumption</th>
<th>Picture Element Pixels</th>
<th>Operating Temperature Range</th>
<th>Size (W x H x D mm)</th>
<th>Weight</th>
<th>Camera Inputs</th>
<th>Video Input</th>
<th>Audio Input</th>
<th>On-screen Distance Marker</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ7100E</td>
<td>7</td>
<td>DC 12V/24V</td>
<td>800 x 3 (RGB) x 480</td>
<td>-10°C to +60°C</td>
<td>187 x 113.5 x 26.6</td>
<td>Approx. 435g</td>
<td>2</td>
<td>1 (RCA)</td>
<td>1 (mono/RCA)</td>
<td>No</td>
<td>Mounting Bracket, Monitor Cable</td>
<td></td>
</tr>
</tbody>
</table>

**7” WIDESCREEN DIGITAL COLOR QUAD MONITOR**

Clarion’s quad camera monitor shows you what you need to see; when and where you need to see it most.

**CJ7300G**

7” Widescreen Digital Quad Color Monitor  
(Compatible with both DC 12V/24V)

- Digital LCD panel delivers a high-quality image.
- 4 Display Modes: single, two, three or four screens.
- Built-in power box allows direct connection of up to 4 cameras.  • LED Backlighting.
- True or Mirror camera image switching function.
- Automatic video switching with reverse gear and turn signal inputs.
- Automatic/Manual dimmer function.  • On-screen Distance Marker (Camera 1 only).
- Built-in Speaker (works in combination with the CC2020E’s microphone*).
- Touch-panel buttons and 8 Languages (English/French/German/Italian/Spanish/Swedish/Chinese/Japanese) display selection.
- Color, Brightness, and Contrast controls.  • Auxiliary (RCA) Video and Mono Audio Input.
- NTSC/PAL Compatible.  • On-dash mounting kit and wireless remote control included.

* Only CAMERA 1 input can be used with the CC2020E’s microphone function.

**Camera coverage areas**

On-screen markers are displayed at 1m, 3m, 5m, and 7m for reference to support proximity verification.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Screen Size (inches)</th>
<th>Power Supply</th>
<th>Power Consumption</th>
<th>Picture Element Pixels</th>
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<th>Size (W x H x D mm)</th>
<th>Weight</th>
<th>Camera Inputs</th>
<th>Video Input</th>
<th>Audio Input</th>
<th>On-screen Distance Marker</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ7300G</td>
<td>7</td>
<td>DC 12V/24V</td>
<td>800 x 3 (RGB) x 480</td>
<td>-10°C to +60°C</td>
<td>174 x 125 x 25</td>
<td>Approx. 480g</td>
<td>4</td>
<td>1 (RCA)</td>
<td>1 (mono/RCA)</td>
<td>Yes</td>
<td>Mounting Bracket, Monitor Cable</td>
<td></td>
</tr>
</tbody>
</table>

Wireless remote control  
Dash mounting kit  
Rear view camera  
Side view cameras  
On-screen markers are displayed at 1m, 3m, 5m, and 7m for reference to support proximity verification.
7” WATERPROOF WIDESCREEN DIGITAL QUAD COLOR MONITOR

Built tough to withstand the harshest working environments, Clarion’s quad screen monitor now boasts waterproof capability to ensure maximum reliability under any conditions.

NEW

CJ7500E

7” Waterproof Widescreen Digital Quad Color Monitor
(Compatible with both DC12V and 24V)

• Waterproof capability: IP67.
• Aluminum die-cast housing.
• Digital LCD panel delivers a high-quality image.
• 4 Display Modes: single, two, three or four screens.
• Built-in power box allows direct connection of up to 4 cameras.
• True or mirror camera image switching function.
• Automatic video switching with reverse gear and turn signal inputs. (When the driver uses reverse gear or right/left turn signals, the monitor displays the corresponding camera.)
• Automatic/manual dimmer function.
• On-screen distance marker (Camera 1 only).
• Built-in speaker (works in combination with the CC2020E’s microphone).
• 8 Languages (English/French/German/Italian/Spanish/Swedish/Chinese/Japanese) display selection.
• U-bracket dash mounting kit and sun visor included.

Camera coverage areas

On-screen distance markers
On-screen markers are displayed at 1m, 3m, 5m, and 7m for reference to support proximity verification.

Waterproof screen

CJ7500E (7” Waterproof Widescreen Digital Quad Color Monitor)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Screen Size (inches)</th>
<th>Power Supply</th>
<th>Power Consumption</th>
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<th>Operating Temperature Range</th>
<th>Size (W x H x D mm)</th>
<th>Weight</th>
<th>Camera Inputs</th>
<th>Video Input</th>
<th>Audio Input</th>
<th>On-screen Distance Marker</th>
<th>Included Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ7500E</td>
<td>7</td>
<td>DC 12V/24V</td>
<td>900mA (DC 12V, in case of connecting four cameras)</td>
<td>800 x 3 (RGB) x 480</td>
<td>-10°C to +60°C</td>
<td>190 x 29 x 141</td>
<td>879g</td>
<td>4</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Mounting bracket, Sunvisor, Monitor cable</td>
</tr>
</tbody>
</table>
Examples of Wired Camera Systems (Current Product)

Current complete Digital Camera and Monitor System

WLAN Digital Wireless Camera and Receiver

Combination with any monitor with composite A/V inputs (NTSC) (12V vehicle only)

Clarion In-Vehicle Multimedia Unit or separate monitor with composite RCA Audio/Video input (NTSC).

Clarion Aftermarket AVN. Contact your Clarion Dealer for details on how to connect to your AVN unit.
Legacy Retrofit Examples of Wired Camera Systems

**Combination with older generation Clarion Rearview Color Monitors or Cameras**

- **CJ7100E/CJ7300G/CJ7500E**
  - Camera cables: CCA532/CCA533/CCA534/CCA535
  - Camera cable: CCA729
  - CC4100E

- **CJ7100E/CJ7300G/CJ7500E**
  - Adapter cable
  - Camera cables: CCA788/CCA792/CCA795/CCA797
  - CC8500E/CC8600E/CC8601E

- **CJ7100E/CJ7300G/CJ7500E**
  - Adapter cable
  - Camera cables: CCA392/CCA393/CCA394/CCA395 (no longer available)
  - CC790/CC8500E/CC8600E/CC8601E

- **CJ7600E**
  - Adapter cable
  - Camera cables: CCA799/CCA392/CCA393/CCA394/CCA395 (no longer available)

- **CJ7600E**
  - Adapter cable
  - Camera cables: CCA792/CCA795/CCA797/CCA818

**System for Trailer Trucks (Retrofit)**

- **CJ7100E**
  - Adapter cable
  - Camera cables: CCA452
  - CC790/CC8500E/CC8600E/CC8601E

- **CJ7600E**
  - Monitor to Trailer "Break Point" Connection Cable
  - Adapter cable
  - Camera cables: CCA454
  - CC790/CC8500E/CC8600E/CC8601E

- **CJ7600E**
  - Monitor to Trailer "Break Point" Connection Cable
  - Adapter cable
  - Camera cables: CCA454
  - CC790/CC8500E/CC8600E/CC8601E

- **CJ7600E**
  - Monitor to Trailer "Break Point" Connection Cable
  - Adapter cable
  - Camera cables: CCA454
  - CC790/CC8500E/CC8600E/CC8601E
### Accessories

**Camera Power Box (12V vehicles only)**

- Camera power supply for Clarion cameras (except for CC4001U).
- Reverse wire trigger input.
- Composite (RCA) video output.
- 12V vehicles only.

**Camera Cables for:**  
CC4100E, CC2012E  
CCA532 (7m / 23ft.)  
CCA533 (10m / 33ft.)  
CCA534 (15m / 49ft.)  
CCA535 (20m / 65ft.)

**Adapter/Conversion Cables for:**  
CC6500E, CC6600E, CC6601E, CJ7600E  

### Cables & Installation Kit for Trailer

**Trailer "Break Point" to Camera Cables / Connection Cable between the "Break Point" and Clarion Heavy Duty Camera**

CCA452  
(20m / 65ft.)

**Monitor to Trailer "Break Point" Connection Cable**

CCA454 (15m / 49ft.)

**Camera Cables for CC2020E**

CCA729 (20m / 65ft.)  
- For connecting CJ7100E/CJ7300G/CJ7500E

CCA730  
- Universal power, audio/video pigtail adapter for CCA729.
- DIN connector to RCA and power connectors: Allows the CC2020E camera to be interfaced with any monitor with composite A/V inputs. 12V vehicles only.

### Compatibility Chart for Cameras and Cables

<table>
<thead>
<tr>
<th>Monitor</th>
<th>Cables</th>
<th>Camera Types</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Camera Connecting Cables 7m / 23ft.</td>
<td>CC6500E/CC6600E/CC6601E</td>
</tr>
<tr>
<td>Old Generation Monitors</td>
<td>10m / 33ft.</td>
<td>CC2001F, CC2002E, CC2003E</td>
</tr>
<tr>
<td>CJ7100E/CJ7300G/CJ7500E</td>
<td>13m / 42ft.</td>
<td>CC4100E</td>
</tr>
<tr>
<td></td>
<td>15m / 49ft.</td>
<td>CC2002E</td>
</tr>
<tr>
<td></td>
<td>20m / 65ft.</td>
<td>CC2003E</td>
</tr>
<tr>
<td></td>
<td>Trailer &quot;Break Point&quot; to Camera Cable</td>
<td>CCA729 or CCA730 (**)</td>
</tr>
<tr>
<td></td>
<td>15m / 49ft.</td>
<td>CCA729</td>
</tr>
<tr>
<td>Cabin (monitor) to Trailer Break Cable</td>
<td>CCA730 (discontinued)</td>
<td>CCA730</td>
</tr>
</tbody>
</table>

**CC7600E**

<table>
<thead>
<tr>
<th>Camera Connecting Cables 7m / 23ft.</th>
<th>CCA792 (discontinued)</th>
<th>Adapter Cables Req’d</th>
</tr>
</thead>
<tbody>
<tr>
<td>15m / 49ft.</td>
<td>CCA795 (discontinued)</td>
<td>Adapter Cables Req’d</td>
</tr>
<tr>
<td>20m / 65ft.</td>
<td>CCA787</td>
<td>Adapter Cables Req’d</td>
</tr>
</tbody>
</table>

**Composite RCA Audio/Video input (NTSC)**

| DIN connector to RCA and power cable 1m / 3ft. | CCA729 & CCA730 (**) |

(1): CCA729: For connecting to CJ7100E/CJ7300G/CJ7500E  
(2): Allows CC2020E camera to be interfaced with any monitor with composite A/V inputs (NTSC). CCA730 adapter can only be used in combination with CCA729. 12V vehicles only.
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- Inconveniences, damages and/or losses (including those due to the user's improper use or incaution) caused by the inability to view the camera image due to reasons/causes including the malfunctioning/defect of Clarion Camera & Monitor System products.

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