

MirrorCam System



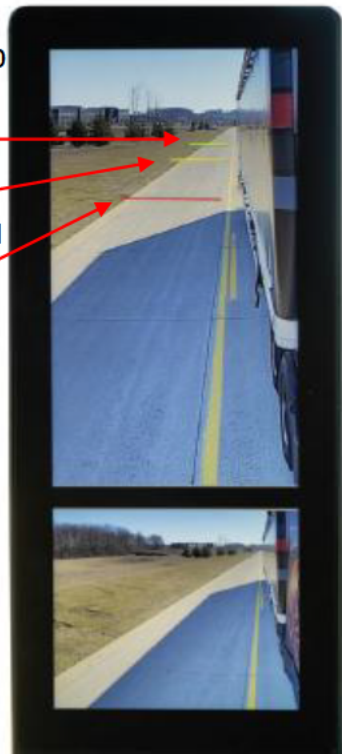
-  *Mirror cam can record. However, it needs a supporting system to store or off board the recorded content.
-  *Rand McNally now, working with LYTX now.

MirrorCam System



Three integrated in-cab displays provide real-time HD vision around the truck and trailer to increase side and rear visibility and safety. This helps reduce driver fatigue due to less eye and head movement keeping safety front of mind. The in-cab monitors are strategically placed for optimal ergonomical positioning. Aerodynamic camera arm and housing are mounted high to provide a wide field of view and help protect from road spray, debris, and damage.

Driver



12.3" Driver Display
(1920 x 720 pixels)

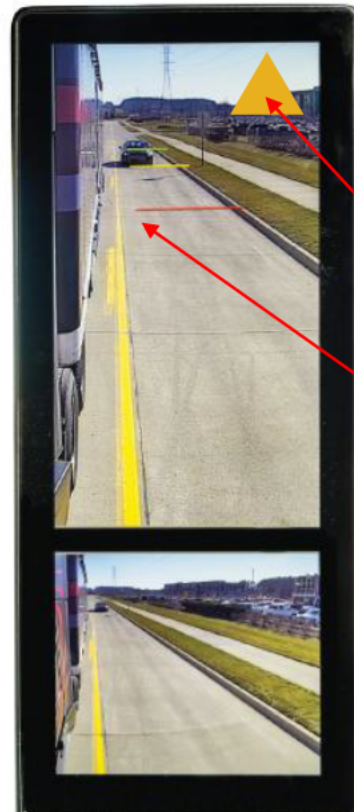


Passenger Down



Look Down Display
(1280 x 760 pixels)

Passenger



15" Passenger Display
(1920 x 720 pixels)



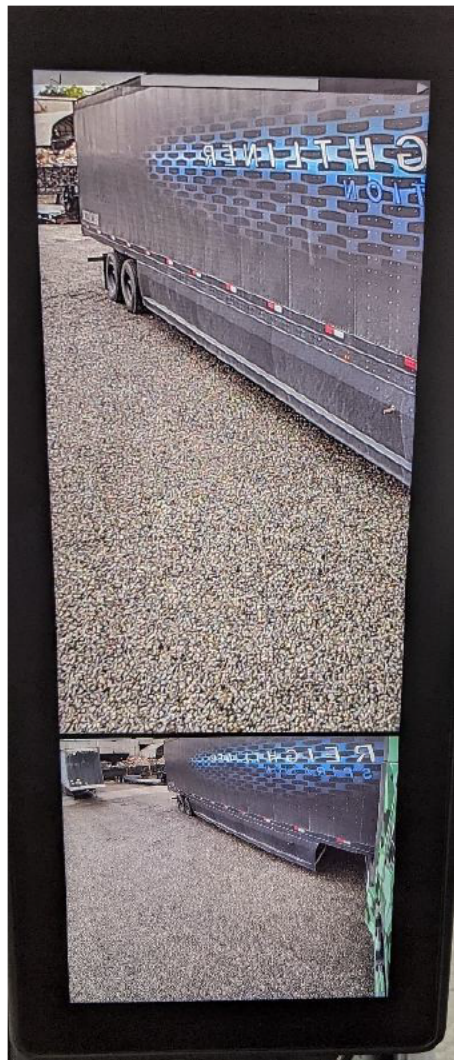
Key Features:

- Three integrated in-cab displays provide real-time HD vision around the truck and trailer
 - 12.3" driver display (1920x720p)
 - 15" passenger display (1920x720p)
 - 7" passenger look down blind spot display (1280x768p)
- Aerodynamic camera arms and housing are designed to channel away rain, and a hydrophobic lens coating provides additional clarity and protection from weather and debris.
- Cameras are mounted high, above the A-pillar, for a greater field of view and protect from road spray and damage
- Low-light and Infrared (IR) "night vision" automatically adjusts in low-light settings to improve visibility
- Trailer and distance lines help to locate the trailer, traffic and objects beyond the trailer
 - Red line = end of trailer
 - Yellow line = ~40 ft from end of trailer
 - Green line = ~80 ft from end of trailer
- Auto Panning automatically adjusts the field of view to always keep the rear of the trailer in view
- Integrates Detroit Side Guard Assist 2 (SGA2) alerts into A-pillar displays. SGA2 is a blind spot detection system that identifies vehicles, pedestrians, bicyclist, and objects on both driver and passenger sides.
- Controls and system information are integrated into the door controls and instrument cluster (pg. 4).
- Currently, our factory installed MirrorCam System doesn't have video recording capability or link to Detroit Connect.

MirrorCam System

Primary Display (Panning Enabled)

*trailer lines do not appear when auto-panning



Convex Display (non-panning)

Infrared (IR), Low-Light & "Night Vision"



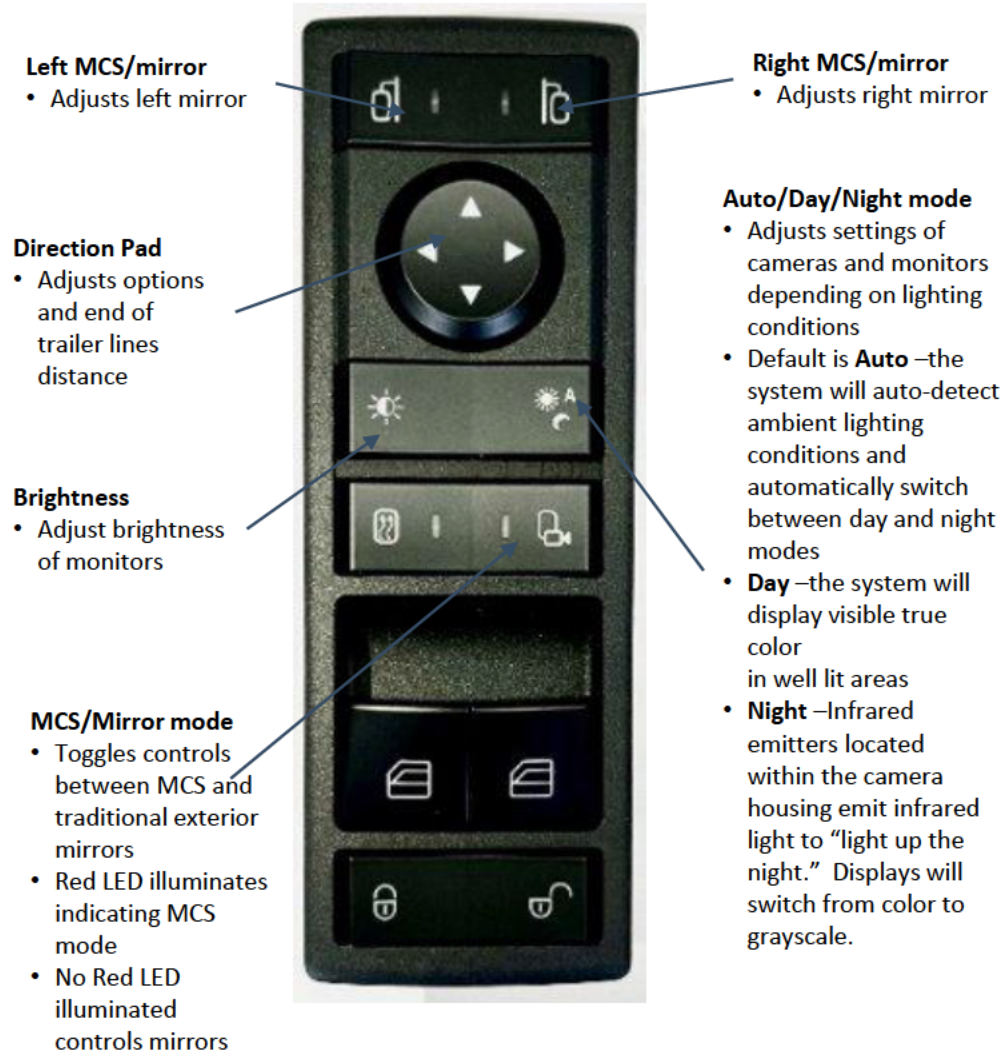
Inclement Weather Visibility (road spray and window soiling)



MirrorCam System

Controls are factory integrated into driver door and dash controls for ease of use with no additional switches or controllers required

Controls integrated into Driver Door



Controls integrated into ICUC or Digital Dash*

Auto Panning

- Enable/Disable modes available
- Defaults to enabled each time

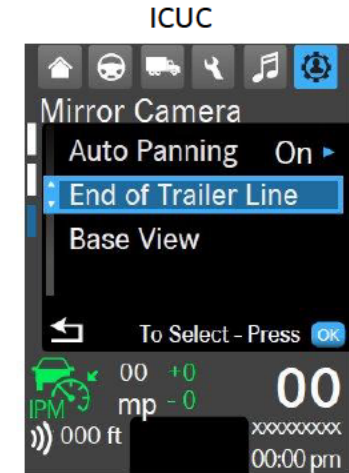
End of Trailer Line

- Customize End of Trailer Line distance (red line), shows up at last distance set
- easily adjusts for different length trailers and loads
- If end of trailer line is not set, the lines will not appear

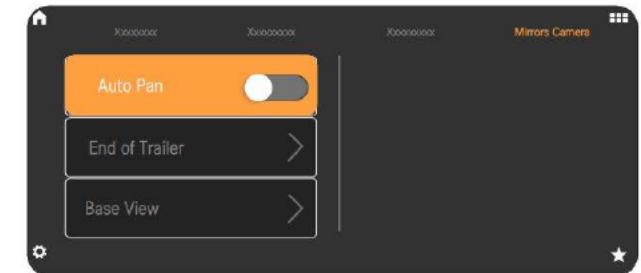
Base View

- Customize the field of view displayed on monitors and how much of vehicle/trailer is displayed

*while some controls are integrated into dash displays, you may be directed to finish setting controls with the driver door control pad



Digital Dash B-Panel

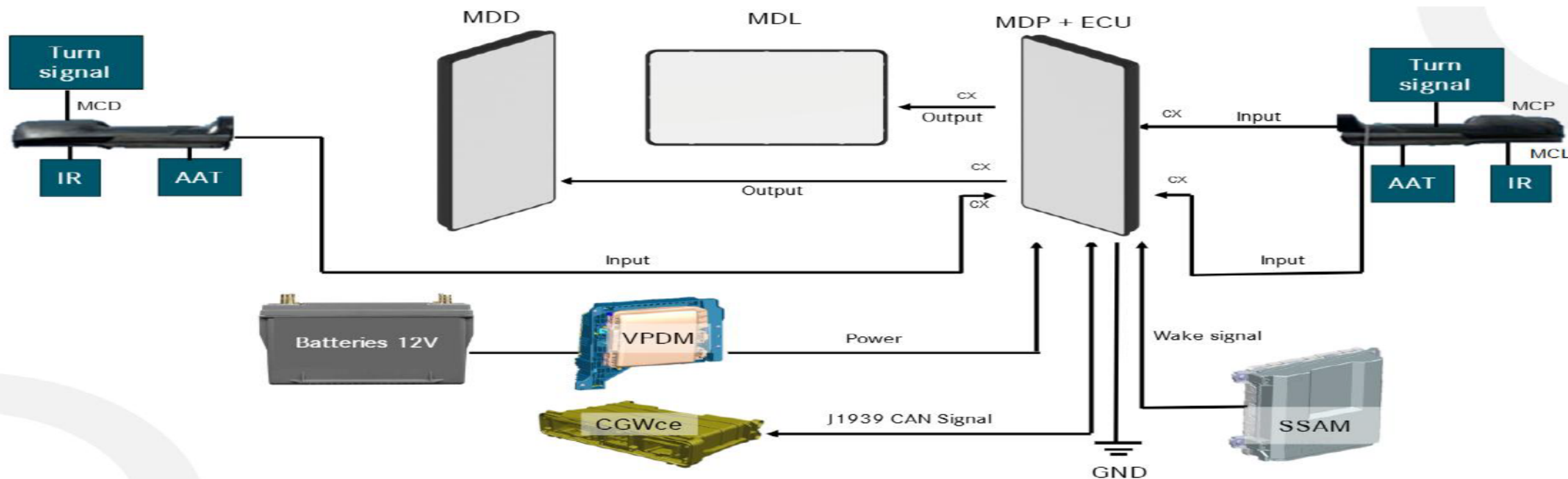


Resources: [Highspot](#), [Fifth Generation](#) | [Safety - Cascadia MirrorCam](#) | [Freightliner Driver Training Video](#) (Coming Q1 2025)

Affected Models: 5th Gen Cascadia, C/O Mid 2025

Data Code:
7A1-003 MIRROR CAMERA SYSTEM WITH RIGHT-HAND DOWN VIEW CAMERA

MirrorCam System Operation



- R/S display is the ECU. That ECU has an 18 pin connection. 4 pin FAKRA connection and a single COAX connection. The 4 pin FAKRA connection is the COAX connection that allows data to transfer from arms to ECU. It transmits camera data and look down data (P/S arm only). These COAX cables transmit data over power and are noted as CX above.
- 18 pin contains J1939 data, power/ground, wakeup and IR LED power/ground to both arms.
- Screens have a **safe mode** and will go dark even when proper power / ground and wake up are provided to ECU.
- Current CEEAce manual does have proper troubleshooting for codes related to Mirror Cam failure modes.
- Main Schematic: G66-22877, D66-42566 (install) of overhead COAX
- Mirror arms do contain a turn signal bulb which is the **ONLY** serviceable item in the arm. Covers to arms are removable.