

The **Panasonic Navigation Radio** can support up to four cameras, to improve visibility around the truck: Rear, LH, RH, and Front.

A camera view can be accessed manually at any time. The LH, RH and Rear views can also be set to automatically pop up when the reverse gear, the LH, or the RH turn signal is selected.

CAMERA INSTALLATION PARTS

Cameras

The Panasonic Navigation Radio can support up to four cameras:

- > Front
- > Rear
- > Left Side
- > Right Side

Adaptor Harness

This supports up to four cameras.

Optional Extension Cables

These are required if the standard cables are not long enough.

CAMERAS VIA PACCAR PARTS

Two Camera brands are available through PACCAR Parts:

Pana-Pacific CVBS Analog Camera Kits

> Left, Right, Front, and Rear cameras available

TVI 720P Analog HD Camera Kits

- > Left, Right, Front, and Rear cameras available
- > Extension cables if required

PANA-PACIFIC KIT – PP207341 ADAPTOR HARNESS



PANA-PACIFIC KIT – CAMERAS AND CABLES

CVBS Analog Camera Kits

- PP807032 Front Camera with 16 ft cable
- PP804395 Rear Camera with 70 ft cable
- PP804396 Right Side Camera with 16 ft cable
- PP804397 Left Side Camera with 16 ft cable

Extension Cables (Optional)

- RRC-10 10 ft extension
- RRC-16 16 ft extension
- RRC-35 35 ft extension
- RRC-70 70 ft extension

720P Analog HD Camera Kits

- PP807272 Front Camera with 16 ft cable
- PP807273 Rear Camera with 70 ft cable
- PP807274 Right Side Camera with 16 ft cable
- PP807275 Left Side Camera with 16 ft cable

PANA-PACIFIC KIT – INSTALLATION BLOCK DIAGRAM



PANA-PACIFIC INSTALLATION – PP207341 ADAPTOR HARNESS

PP207341 adaptor harness inserts between the silver box and the existing 16-way connector.

To Install:

- 1. Disconnect the truck 16-way connector from the silver box.
- 2. Mate the truck 16-way connector to the PP207341 adaptor harness.
- 3. Mate the PP207341 16-way connector to the silver box.



CAMERA DISPLAY ACTIVATION

After the cameras are connected physically, it must be specified what type are being used and enabled within the Panasonic silver box software:

Enter the Advanced Menu

- 1. From the Home screen go to the Setup menu.
- 2. Scroll down and enter the System Version menu.
- 3. Tap the screen 8-10 times to access the Advanced menu.



CAMERA DISPLAY ACTIVATION

Define Camera Type & Enable Function

- 1. Select the Camera Type you will be using (cannot mix 720P with CVBS camera types) and enable all the cameras you will be using.
- 2. Select the return arrow on the top left corner. Radio will reboot and save changes.

	AG
Camera Type	720P CVBS
Front Camera Function	Disable Enable
Rear Camera Function	Disable Enable
Left Camera Function	Disable Enable
Right Camera Function	Disable Enable
Wifi Name:CAR-WIFI-E98AF8	Change

MANUALLY SELECTING CAMERA VIEWS

Select "Camera" in the Home screen to access the available camera views.

Split screen of camera views will open.

		HOME		IJ	
02 Moi 05/13	02:02 рм Monday 05/13/2024		Phone	Bluetooth Music	
NAVI	Device List	Radio	SiriusXM	Camera	
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		• •			

MANUALLY SELECTING CAMERA VIEWS

To activate a different camera view, select the ">" symbol.

Select from the Left/Right or Front/Rear that have a highlighted border.

The active camera will show on the top right corner of the split screen.



MANUALLY SELECTING CAMERA VIEWS

To expand a camera view to full screen, tap the screen of your choice.

To return to split screen, tap the screen again.



SETUP ERRORS

If the cameras are not enabled in the Advanced menu, the Camera icon in the Home screen will be disabled.

If the camera input is enabled, but no camera is connected, a black screen will be displayed.



SETUP ERRORS

If the incorrect camera types are selected in the Advanced menu, the camera views will show distorted images like the image to the right.

Camera Type selected in Advanced menu and cameras being used must match. Cannot mix and match 720P and CVBS.



AUTOMATIC CAMERA VIEWS

Individual camera views can be displayed automatically when a turn signal or reverse is selected. Views are triggered by the J1939 CAN messages for LH Turn, RH Turn and Reverse.

Two Steps are Required:

- 1. Automatic Camera Views must be turned ON in the Panasonic menu.
- 2. The J1939 CAN messages must be broadcast on the J1939 CAN bus connected to the Panasonic silver box.

NOTE: Automatic Mode will only work if the Panasonic is in camera mode. Some truck models do not support some Automatic Camera Modes.

Kenworth Auto Camera				Peterbilt Auto		
Availability				Came	ra Availability	
Model	LH	RH Camera	Reverse		Model	Auto Camera
T270	YES	YES	NO		325	NO
T370	YES	YES	NO		330	NO
T440	YES	YES	YES		337	NO
T460	YES	YES	YES		348	NO
T470	YES	YES	YES		382	NO
C500	YES	YES	YES		320	NO
T660	YES	YES	YES		365	YES
T680	YES	YES	YES		367	VES
T800	YES	YES	YES		290	VES
T880	YES	YES	YES		503	TES
W900	YES	YES	YES	/ I	587	NO
					567	YES

YES

AUTOMATIC CAMERA VIEWS - TURNING ON

To Turn Automatic Camera Views ON or OFF:

- 1. Select "Setup" in the Home screen.
- 2. Scroll down and enter the "Camera Settings" menu.
- 3. Turn the desired cameras ON.
- 4. Return to the Setup menu.



BROADCASTING J1939 CAN MESSAGES

To ensure the proper CAN messages are broadcast for automatic camera mode, enter the Program area of ESA (use the program button at top).

For NAMUX 2 Trucks (Medium Duty, T270/T370):

- 1. Select the "Network Interface" tab.
- 2. Verify "Transmit CECU LC Message" is set to "Gateway or Route to VCAN".

AI	Dash Lighting Display Drivetrain Electrical Light	ting Network Interface O tional Gauge	
	Description	▲ Locked Value	
2	Transmit CECU LC Message	Gateway or Route to VCAN	-

NOTE: NAMUX 2 does not support a CAN message for reverse. Therefore, only manual mode is available for the rear camera on NAMUX 2 trucks. Automatic mode will not work.

BROADCASTING J1939 CAN MESSAGES

For NAMUX 3 Trucks (C500, T660, T800 and W900 models):

- 1. Select the "Network Interface" tab.
- 2. Verify "Destination for Lighting Control Message" is set to "Vehicle Databus".

	II Dash Lighting Display Drivetrain Bectrical Exterior Lighting Lighting Netwo	ork Interface optional Gauge Standard Gauge Telltale
	Description	 Locked Value
	Configure Which CAN Bus to Transmit Fuel Le Message	Disabled
1	* Databus Gateway	Enable -
2	Databus Router	Enable -
	Destination for Ambient Conditions Message	Disabled -
	Destination for Engine Aftertreatment SCR Rea Tank 1 Message #1	agent Disabled
	Destination for Lighting Control Message	Vehicle Databus 🝷

BROADCASTING J1939 CAN MESSAGES

For NAMUX 4 Trucks (T680 and T880 models):

- 1. Select the "Network Interface" tab.
- 2. Verify "Transmit CECU LC Message" is set to "Gateway or Route to VCAN".

All Dash Lighting Display Drivetrain Bectrical Exterior Lighting Lighting Network Interface Optional Gauge Sensor Standard Gauge Teltale				
Description	Locked Value			
Gateway Engine CCVS Message (PGN 65265)	Off (Default)			
Gateway Engine EEC1 Message (PGN 61444)	Off (Default)			
Gateway Transmission ETC1 Message (PGN 61442)	Off (Default)			
∠ Transmit CECU LC Message	Gateway or Route to VCAN			

- *3.* Select the "Lighting" tab.
- 4. Verify "Turn Lamp Front Side Installed" is set to "Enable".

Al	Dash Lighting Display Drivetrain Electrical Exterior Lighting	Lighting Network Int	terface Optional Gauge Sensor Standard Gauge Telltale	
	Description	Locked	Value	
	Enable LED Front Turn DRL		Disable	-
	Enable LED Rear Stop Turn		Enable	-
*	Turn Lamp Front Side Installed		Enable	•
-			Barrista.	

J1939 CAN MESSAGES FOR AUTOMATIC ACTIVATION

The J1939 CAN messages used to activate camera views in Automatic Mode are:

- > SPN 2367, PGN 65089 Left Turn Signal
- > SPN 2369, PGN 65089 Right Turn Signal
- > SPN 2391, PGN 65089 Backup Light

NOTE: There is no J1939 CAN message to activate the front camera. The front camera can only be selected manually.

AUTOMATIC CAMERA MODE VERIFICATION

To Verify Automatic Camera Mode is Active:

- 1. Select the "Camera" button.
- 2. Verify the default camera view is displayed.
- 3. Activate the turn signals and verify the LH or RH camera view pops up.

