

Lytx Hub - Managed Installation Offering

Solution Offering

- 3 Auxiliary Camera Max supported for Managed Installs. System supports maximum 4
- 2 Side Auxiliary Camera's Max
- 1 Rear Auxiliary Camera Max

Bill of Materials Available

| Catalog Number | Description | Components | Components | Notes |
|-------------------|--|--|---|--|
| PER-RVS-0724 | Side Camera – 120 degree Arm Camera with 21' cable | LYTX-ARM-FR-NC Side Camera – Freightliner 120 degree Arm Camera | LYTX-882 21' Double Female Camera Cable | Max 2 per vehicle Hose Clamp mounting type Driver and Passenger side location only |
| PER-RVS-0723 | Rear Camera – 103 degree Backup Camera with 66' Cable | LYTX-770-NC Rear Camera – 130 degree Backup Camera | LYTX-825N 66' Double Female Camera Cable | Max 1 rear camera per vehicle. Must be on the back of the vehicle no sides |
| PER-RVS-0704 | 4 Channel Power Harness with 4 Video Outputs | RVS-5044-LYTX-F03-B RVS: 4 Channel Harness w/ Regulator | • N/A | Voltage Regulator cable will be pre-attached to the harness All 4 video inputs will be connected |
| PER-RVS-0722 | Monitor – 7" LED Digital Quad View Color Monitor with Mount | LYTX-6137Q-NP Monitor – 7" LED Digitial Quad View Color Monitor | LYTX-1420 Double Swivel Monitor Mount | |

General Vehicle Type Exclusions:

- Nonstandard vehicles
 - o Trains / Intermodal
 - o Trolleys
 - o Crane's or heavy duty off road vehicle types
 - o Forklifts
 - o Greater than 24 volt systems
 - o Detachable trailers rear
 - o Street sweepers rear

Solution Breakdown

1. Auxiliary side camera's

Definition:

- Side camera is defined as side camera vehicle Cab area and forward
- No side camera placements behind the cab area



Camera offering:

- **PER-RVS-0707** Side Camera Hose Clamp mounting style
- PER-RVS-0881 16' Double Female Camera Cable (connects Camera to Lytx Hub)



View Objective: Based on the mirror location the camera may potentially have a small blindspot

- Sideswipe
- Merging
- Collisions
- Side vehicle activity (loading / unloading)











Mounting/Routing Options:

- Mounting the camera will use the supplied hose clamps and attach to the vehicle side mirrors
- Mirror Arm Mounting Considerations:
 - **o** Diameter measurements:
 - 2 Larger hose clamps 4" maximum diameter and minimum diameter of 3"
 - 2 smaller hose clamps 1.25" maximum diameter and minimum diameter of 1"
- No drilling
- Approved Routing Method
 - o No disassembly of mirror for cable routing
 - **o** Cable routing on the exterior and routed through the door jam if applicable
- Location on the mirror mount will vary based on optimal view defined.
 - **o** Placements will be documented and part of the approved database



Hose Clamp samples:



Vehicle Type Considerations:

• Medium to heavy-duty vehicles with mirror arms that extend out. Not close to the body.

Known Exclusions:

- Passenger vehicles
- Vehicles that do not have a hinging door to route through or a clear routing path (Bus)
- Light Duty vehicles that do not have enough extension on the side mirrors ie Ford F 550. Unable to get hose clamp around mirror mold
- Freightliner NEW Cascadia P4 the mirror mold is too large for the 4" hose clamp. We can combine the supplied large and small hose clamp to fit but client may not like it aesthetically

Camera Specifications:

- 120 degree viewing angle
- 2.8mm lens
- 10 infra-red lights for night vision
- Waterproof with an IP68 rating
- 10G vibration rating
- Adjustable lens for optimal viewing



2. Auxiliary Rear Camera

Definition:

- Rear camera is defined as being mounted on the back end of the vehicle
 - o Can be mounted up high or low depending on the vehicle type
- Fixed vehicles, no mechanical moving parts or trailers
 - o A fixed and non-moving mounting surface must be available
 - o No articulating parts to route through

Camera offering:

- PER-RVS-0711 Rear Camera
- PER-RVS-0720 66' Double Female Camera Cable (connects Camera to Lytx Hub)



View Objective: Based on the mirror location the camera may potentially have a small blindspot. You would still be able to capture the vehicle coming up to the blind spot to determine root cause.

- Loading / Unloading
- Collisions
- Good view of the road behind vehicle









Mounting Options:

- Mounting will require drilling into the back of the vehicle
- Cable routing will need to be routed safely to the rear of the vehicle. If there's a vehicle that has a cable channel along the top, this should be leveraged.
- Top mounting looking down



Vehicle Type Considerations:

- Medium to heavy duty vehicles
- Box trucks
- No boom type vehicle with moving parts
- Limited in length due to cable run. Must be able to run cable from cab to final Aux location
 - o Must not exceed 66' from cab dash area to final mounting location in the back

Known Exclusions:

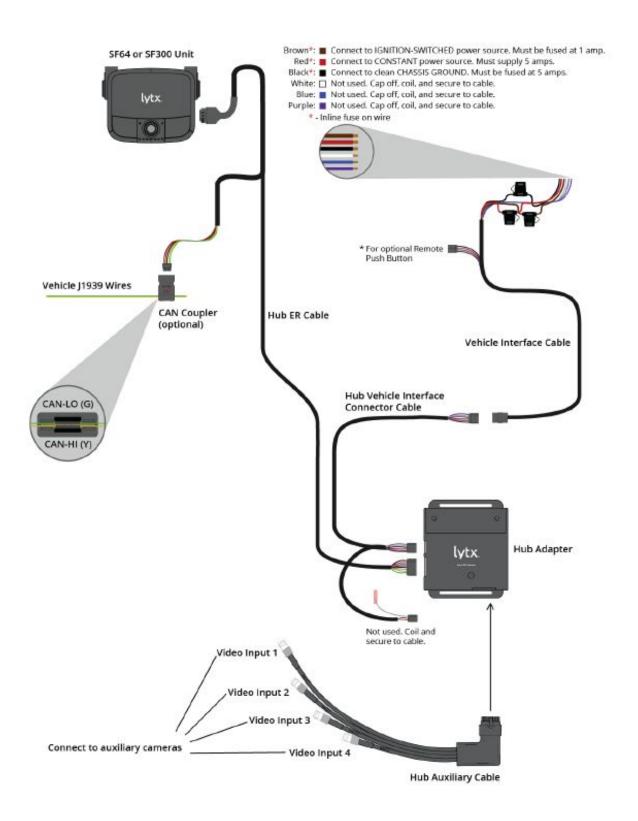
- Passenger vehicles
- Trailers. Not detachable solution permitted

Camera Specifications:

- 130 degree viewing angle
- 1/3" Sharp Color CCD Camera
- 18 infra-red lights 50ft of Night Vision
- Waterproof IP69K Rating
- 410,000 Pixel / 2.5 mm lens
- Shock Resistant with 20G vibration and 100G impact rating



Lytx Hub Cabling Diagrams





Lytx Hub Cabling Diagrams With PCU (Power Control Unit)



