RioV360

Refuse Truck Camera Fitment Guide

Find your body and chassis, match the layout, and order the right RioV360 kit.

UNIVERSAL FIT

One RioV360 Kit for Refuse Trucks of Any Chassis

RioV360 is a 4-camera AI pedestrian detection system that alerts the driver and people on foot before a collision. The same complete kit fits rear loaders, automated side loaders, front loaders and roll-off trucks on residential and commercial routes. It runs on 8 to 32 V DC, so it connects directly to the 12 V system on refuse chassis. It adds AI alerts, a 120 dB beacon and continuous video alongside the factory backup camera. No tags, software or subscription.



4 AI Cameras
1080p, 130° view, infrared night vision, IP69K. Full 360° coverage.

Detects People
Standing, crouching, kneeling or partly hidden, 0 to 5 m, alert in under 400 ms.

7 Inch Monitor
Live view with red, yellow and green zones set per camera.

120 dB Beacon
External voice alert and light so people on foot know to move.

Onboard Recording
Continuous video, 256GB card included, about 30 hours.

Fast Install
Complete kit with harness and hardware. Plan extra time for long cable runs.

How to Use This Guide

1. Find your body type in the table below, then your chassis brand.
2. Match the body type to its camera layout and accessories. Refuse chassis run 12 V, and RioV360 connects directly.
3. Confirm the chassis voltage and the body builder's wiring plan. Body and chassis are often from different makers.
4. Plan cable runs from the body to the cab. Long bodies need RV360-CBX extension cables.
5. Order the complete kit plus any accessories listed for your body type.

Power: 12 V and Electric Refuse Trucks

- **Diesel and natural gas chassis:** 12 V system. Connect to a fused, key-switched 12 V circuit and the constant 12 V line, as the user manual shows.
- **Battery-electric chassis:** connect to the key-switched 12 V accessory circuit. If there is none, add the RV360-DCC isolated DC-DC converter. Never connect to the traction battery.
- **Factory backup camera:** RioV360 runs alongside the OEM camera. It adds AI pedestrian alerts, the 120 dB beacon and continuous recording of all four sides.

RioV360 User Manual

Installation, settings and troubleshooting: **Download the RioV360 User Manual (PDF, v4.4)**.

Fitment by Body Type

Body type	Typical use	Power	Power / RioV360 connection	RioV360 Accessories	Notes
Rear Loader	Residential and commercial routes	12 V	Direct: 12 V key-switched circuit	EXT, CBX, 512	Helpers work at the hopper. Rear camera high above the hopper, zones set for the riding step.
Automated Side Loader	Residential cart routes	12 V	Direct: 12 V key-switched circuit	EXT, CBX, 512	Curb side is the busiest zone. Right camera covers the arm and the curb.
Front Loader	Commercial dumpsters	12 V	Direct: 12 V key-switched circuit	EXT, CBX, 512	Forks raise over the cab. Front camera low on the bumper sees the zone ahead.
Roll-off	Construction and industrial containers	12 V	Direct: 12 V key-switched circuit	EXT, CBX, 512	Long frame and hoist. Rear camera on the rear frame, clear of the container.
Battery Electric	All body types	High-voltage battery	Key-switched 12 V accessory circuit, or RV360-DCC	EXT, CBX, 512, DCC if needed	Mack LR Electric, Peterbilt 520EV and similar. Never connect to the traction battery.

Codes shortened from RV360-EXT, -CBX, -512, -MAG and -DCC. Details on page 3.

Refuse Chassis by Brand

Brand	Refuse chassis	Electric
Mack	LR, Granite, TerraPro	LR Electric
Peterbilt	520, 567	520EV
Autocar	ACX, ACMD	Not listed
Freightliner	EconicSD, M2 106	Not listed
International	HV	Not listed
Battle Motors	LET2	Not listed

Refuse Bodies by Builder

Builder	Bodies	Layout notes
Heil	DuraPack rear loaders, PowerTrak, side loaders, front loaders, RevAMP electric	Rear camera above the hopper or tailgate
McNeilus	Rear loaders, AutoReach and Zero Radius side loaders, Atlantic front loader, Volterra ZSL	Right camera covers the arm on side loaders
New Way	Sidewinder side loaders, rear and front loaders	Same 12 V chassis connection
Labrie, Wayne, E-Z Pack, Curbtender, Galbreath	Side loaders, rear loaders and roll-off hoists	Match the layout to the body type

Body and chassis combinations vary by fleet. Every combination on 12 V or 24 V connects directly. Not listed? Send the chassis, body and year and we will confirm the kit within one business day.

Camera / Beacon Layout

- **Rear:** high on the body above the hopper or tailgate, aimed at the riding step and reverse path.
- **Right side:** on the body front corner, aimed back along the curb side, where helpers, carts and residents are.
- **Left side:** on the body front corner, aimed back along the street side.
- **Front:** low on the bumper or cab front, covering the zone below the windshield of low-cab-forward trucks.
- **Monitor:** in the cab with the RV360-EXT kit. Beacon high on the body rear, where helpers and residents can see and hear it.

Set the rear detection zone around the riding step so helpers on the step do not trigger constant alerts while people behind the truck still do. No tags for workers to wear: the AI cameras detect any person in the zone.

RioV360 Accessories

- **RV360-CBX:** Extension Cables: two 3 m and two 5 m camera cables plus a 5 m monitor cable for long machines.
- **RV360-EXT:** Monitor Extension and Mounting Kit: rail clamp, round base, cab-frame bracket or T-attachment.
- **RV360-512:** Upgraded Storage: 512GB card for about 60 hours of continuous video.
- **RV360-MAG:** Magnetic Camera Mounts: no-drill mounting on steel surfaces, ideal for trial positions (US shipments).
- **RV360-DCC:** Isolated DC-DC Converter: for electric machines with no low-voltage circuit. Priced on quote.

Common Questions

Does RioV360 fit Mack LR and Peterbilt 520 refuse trucks? Yes. Refuse chassis run a 12 V system, which RioV360 uses directly, with any body from Heil, McNeilus, New Way, Labrie or others.

My truck already has a backup camera. Why add RioV360? A backup camera shows the view. RioV360 adds AI detection of people on all four sides, an in-cab alert, a 120 dB beacon and continuous onboard recording.

Will helpers on the rear step set off alerts? Detection zones and sensitivity are set per camera, so the rear zone can be shaped around the riding step.

Do workers need to wear tags? No. RioV360 uses AI cameras to detect any person in the zone, with nothing to wear or charge.

PILOT UNIT PROGRAM

Prove It on One Route Before You Commit

$500 off

PILOT discount applies to all RioV360 units through December 31, 2026

Put RioV360 on the truck that runs your busiest route and let your drivers, helpers, supervisors and safety team see it work. No long trial agreements and no software to set up. Install it, run it, and decide.

1. **Pick the machine**
   Choose the machine with the most people working around it.
2. **Order**
   Send the make, model and serial number. Pay by credit card.
3. **Ships fast**
   In-stock units ship from Arizona in 2 business days.
4. **Install**
   Follow the user manual and the layout in this guide.
5. **Roll out**
   Use the same kit and layout across the rest of the fleet.

Included with the PILOT unit: 4 AI cameras, 7 inch monitor, 120 dB voice beacon, 256GB card, wiring harness, mounting hardware, user manual and 18-month warranty. Phone, email or Teams support for your installer.

Recommended PILOT Unit Accessories

RV360-CBX
Extension Cables
Camera and monitor extensions for long frames and elevated cabs.

RV360-512
Upgraded Storage
512GB high endurance card for about 60 hours of continuous video.

RV360-EXT
Monitor Extension and Mounting Kit
Rail clamp, round base, cab-frame bracket or T-attachment.

RV360-MAG
Magnetic Camera Mounting Kit
No-drill camera mounts to trial positions on steel surfaces.

Order a PILOT unit: **+1 (520) 501-0602** | **info@riodatos.com**

Body types, chassis and model lists are approximate and vary by year, region and configuration. Brand and model names are trademarks of their owners. RioDatos is not affiliated with or endorsed by any manufacturer listed. Model names are used only to identify compatible vehicles.