RioV360

Articulated Dump Truck Fitment Guide

Find your hauler, match the payload class, and order the right RioV360 kit.

UNIVERSAL FIT

One RioV360 Kit for Articulated Haulers of Any Brand

RioV360 is a 4-camera AI pedestrian detection system that alerts the operator and people on foot before a collision. The same complete kit fits articulated dump trucks on construction, quarry and mining sites, from 25-ton haulers to 60-ton trucks. It runs on 8 to 32 V DC, so it connects directly to the 24 V system on articulated haulers. It adds AI alerts, a 120 dB beacon for ground crews and onboard video, alongside any factory 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 brand and model in the table below. The model number usually gives the payload in tons.
2. Match the payload class to its power connection and accessories. Articulated haulers run 24 V, and RioV360 connects directly.
3. Confirm the model and voltage on the data plate. Model ranges change by year and region.
4. Plan the rear camera cable across the articulation joint with a service loop for full steering and oscillation.
5. Order the complete kit with RV360-CBX extension cables, plus any accessories listed for your class.

Power: 24 V and Electric Haulers

- **Diesel articulated haulers:** 24 V system. Connect to a fused, key-switched 24 V circuit and the constant 24 V line, as the user manual shows.
- **Battery-electric haulers:** connect to the key-switched low-voltage accessory circuit. If there is none, add the RV360-DCC isolated DC-DC converter. Never connect to the traction battery.
- **Factory cameras:** RioV360 runs alongside an OEM camera. It adds AI pedestrian alerts, the 120 dB beacon and continuous recording.

RioV360 User Manual

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

Fitment by Payload Class

Payload class	Payload	Power	Power / RioV360 connection	RioV360 Accessories	Notes
Small	About 25 to 30 t	24 V	Direct: 24 V key-switched circuit	EXT, CBX, 512	Construction and utility work. Right side and rear are the biggest blind zones.
Medium	About 35 to 45 t	24 V	Direct: 24 V key-switched circuit	EXT, CBX, 512	The quarry and earthmoving workhorse. Run the rear camera cable across the hitch with a service loop.
Large	About 45 to 60 t	24 V	Direct: 24 V key-switched circuit	EXT, CBX, 512	Mining and large earthmoving. Confirm cable lengths for the long trailer.
Battery Electric	All classes	High-voltage battery	Key-switched 24 V accessory circuit, or RV360-DCC	EXT, CBX, 512, DCC if needed	Never connect to the traction battery.

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

Models by Brand and Payload Class

Brand	Small (25-30 t)	Medium (35-45 t)	Large (45-60 t)
Cat	725, 730	735, 740	745
Volvo	A25G, A30G	A35G, A40G, A45G	A50, A60
Komatsu	HM300-5	HM400-5, HM460-6	Not listed
John Deere	260 P-Tier, 310 P-Tier	410 P-Tier	460 P-Tier
Bell	B20E, B25E, B30E	B35E, B40E, B45E	B50E, B60E
Develon	DA30-7	DA45-7	Not listed
Hyundai	HA30	HA45	Not listed
Rokbak	RA30	RA40	Not listed

Older Articulated Haulers

Brand	Older series	How to match
Cat	C-series and earlier (730C, 745C)	A 745C fits like the 745
Volvo	D, E and F series	An A40F fits like the A40G
Komatsu	HM400-3 and earlier	Fits like the HM400-5
John Deere	D and E-II series	A 410E-II fits like the 410 P-Tier
Bell	D series and earlier	A B40D fits like the B40E
Develon / Doosan / Terex	Doosan DA30, DA40; Terex TA series	Match by payload class

Older haulers fit by payload class. All run 24 V and connect directly. Not listed? Send the make and model and we will confirm the kit within one business day.

Camera / Beacon Layout

- **Rear:** on the rear frame below the dump body, so the view stays clear when the body raises.
- **Right side:** on the tractor unit, aimed back along the trailer. The right side is the operator's biggest blind spot.
- **Left side:** on the tractor unit left side, aimed back along the trailer and wheels.
- **Front:** on the cab roof front edge or front frame, covering the low zone ahead of the bumper.
- **Monitor:** in the cab with the RV360-EXT kit. Beacon high on the cab roof rear or the tractor unit.

Cross the articulation joint with the rear camera cable along the factory harness route and leave a loop for full steering and oscillation. Never mount on the dump body, which raises and lowers. 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 Cat and Volvo articulated dump trucks? Yes. Articulated haulers run a 24 V system, which RioV360 uses directly. The same kit fits Cat, Volvo, Komatsu, Deere, Bell, Develon and Hyundai models.

My hauler already has a factory camera. Why add RioV360? A factory camera shows the view. RioV360 adds AI detection of people, an in-cab alert, a 120 dB beacon that warns the person on foot and continuous onboard recording.

Where does the rear camera go on an articulated hauler? On the rear frame below the dump body, with the cable routed across the articulation joint with a service loop.

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 Your Hauler Before You Commit

$500 off

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

Put RioV360 on the hauler with the most people working around it and let your operators, foremen and EHS team see it work on your own site. 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**

Payload classes and model lists are approximate and vary by year and region. 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 machines.