RioV360

Telehandler Camera Fitment Guide

Find your telehandler, match the size class, and order the right RioV360 kit.

UNIVERSAL FIT

One RioV360 Kit for Telehandlers 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 telehandlers on construction sites, farms, lumber yards and rental fleets, from compact machines to 12,000 lb high-capacity and rotating models. It runs on 8 to 32 V DC, so it connects directly to the 12 V system on most telehandlers. Cameras mount on the chassis, not the boom, so the view stays steady as the boom extends. 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. Most telehandlers install in a day.

How to Use This Guide

1. Find your brand and model in the table below. Most model numbers give the rated capacity and lift height.
2. Match the size class to its power connection and accessories. Most telehandlers run 12 V, and RioV360 connects directly.
3. Confirm the model and voltage on the machine data plate. Model ranges change by year and region.
4. Plan the layout on the chassis: rear counterweight, right side, left side and front, plus the monitor in the cab.
5. Order the complete kit plus any accessories listed for your class.

Power: 12 V, 24 V and Electric Telehandlers

- **Compact, standard and most high-capacity telehandlers:** 12 V system. Connect to a fused, key-switched 12 V circuit and the constant 12 V line, as the user manual shows.
- **Heavy-load and some rotating telehandlers:** may run 24 V. RioV360 connects directly to either, with no converter. Check the battery or data plate.
- **Battery-electric telehandlers:** 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 drive battery.

RioV360 User Manual

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

Fitment by Size Class

Size class	Rated capacity	Power	Power / RioV360 connection	RioV360 Accessories	Notes
Compact	About 5,500 to 6,000 lb, under 25 ft	12 V	Direct: 12 V key-switched circuit	EXT, 512, MAG	Farms, landscaping and tight sites. Short frame, standard cables reach.
Standard	About 6,000 to 9,000 lb, 36 to 44 ft	12 V	Direct: 12 V key-switched circuit	EXT, 512, CBX	The rental workhorse. Boom and engine block the operator's right side.
High-Capacity	About 10,000 to 16,000 lb, 42 to 56 ft	12 V on most	Direct: 12 V or 24 V key-switched circuit	EXT, CBX, 512	Long frame: CBX cables reach the rear counterweight and front frame.
Rotating / Heavy-Load	Rotating upper, or over 16,000 lb	12 V or 24 V	Direct: 12 V or 24 V key-switched circuit	EXT, CBX, 512	Rotating: mount on the upper so cameras turn with the cab. Check voltage on the data plate.
Battery Electric	Compact and rotating	Low-voltage accessory circuit	Key-switched 12 V accessory circuit, or RV360-DCC	EXT, 512, DCC if needed	Manitou MT 625e, MRT 2260e and similar. Never connect to the drive battery.

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

Models by Brand and Size Class

Brand	Compact	Standard	High-Capacity	Rotating / Heavy-Load
JLG / SkyTrak	Not listed	SkyTrak 6034, 6042, 8042	SkyTrak 10042, 10054, 12054; JLG 1055, 1255, 1644	Not listed
Genie	GTH-5519	GTH-636, GTH-844	GTH-1056, GTH-1256, GTH-1544	Not listed
Cat	TH255C	TH0642, TH0842	TH1055, TH1255	Not listed
JCB	505-20	506-36, 507-42, 509-42, 510-42	510-56, 512-56, 514-56	Not listed
Skyjack	SJ519 TH	SJ643 TH, SJ843 TH	SJ1044 TH, SJ1056 TH, SJ1256 THS	Not listed
Bobcat	TL519, TL623	TL723, TL923	Not listed	Not listed
Manitou	MT 625, MT 625e	MT 735, MT 935, MT 1135, MT 1335	Not listed	MRT 2260, MRT 2660, MRT 3060; MHT 790 to MHT 11250

Older Telehandlers

Brand	Older series	How to match
JLG / SkyTrak	G-series (G6-42A, G9-43A, G10-55A, G12-55A), SkyTrak 6036 and earlier	A G10-55A fits like the 1055
Genie	GTH-842, GTH-1048 and earlier GTH models	A GTH-842 fits like the GTH-844
Cat	TL642, TL943, TL1055, TL1255 (C and D)	A TL943D fits like the TH0842
JCB	506C, 506CHL, 508C and earlier Loadalls	A 508C fits like the 509-42
Skyjack	VR series (VR1056 and similar)	A VR1056 fits like the SJ1056 TH
Bobcat	V-series VersaHANDLER, TL619	Match by rated capacity

Older telehandlers fit by rated capacity. Most model numbers give the capacity and lift height, so an older machine fits like the current model with the same capacity. Not listed? Send the make and model and we will confirm the kit within one business day.

Camera / Beacon Layout

- **Rear:** on top of the rear counterweight, aimed down at the reverse path.
- **Right side:** on the right rear fender or engine cover, aimed forward. The boom and side engine block the operator's right view.
- **Left side:** on the left rear corner behind the cab, aimed forward along the cab door and front tire.
- **Front:** low on the front frame or cab roof front edge, aimed at the travel path. A raised or carried load blocks the forward view.
- **Monitor:** on the right front cab post with the RV360-EXT kit, clear of the load view and joystick reach.
- **Beacon:** on the counterweight or cab roof rear, where ground crews can see and hear it.

Mount on the chassis, never on the boom, so the view does not move as the boom extends. On rotating telehandlers, mount on the upper structure so the cameras turn with the operator. No tags for workers to wear: the AI cameras detect any person in the zone.

RioV360 Accessories

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

Common Questions

Does RioV360 fit JLG and Genie telehandlers? Yes. JLG, SkyTrak and Genie telehandlers run a 12 V system and RioV360 runs on 8 to 32 V, so it connects directly.

Where do the cameras go on a telehandler? On the chassis: rear counterweight, right fender or engine cover, left rear corner and front frame. Never on the boom, so the view stays steady.

Can RioV360 move between rental telehandlers? Yes. With RV360-MAG magnetic mounts the cameras need no drilling, so a unit can move to another machine of the same class.

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 Telehandler Before You Commit

$500 off

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

Put RioV360 on the telehandler with the most people 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 telehandler**
   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

RV360-512
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 the cab and fenders.

RV360-CBX
Extension Cables
Camera and monitor extensions for standard and larger telehandlers.

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

Size classes, capacities 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 machines.