

GUANGZHOU ILAN TECHNOLOGY CO., LTD.

Reversing Camera and Monitor Installation Guide

A reversing camera installation is six decisions and one cable run. Getting the decisions right first means the cable run only has to be done once.

This guide covers a camera and monitor installation on a car, van, truck or machine. Work through the steps in order: the decisions come before the cable run, so the cable run only has to be done once.

Installation Sequence

Step 1 · Choose and mark the camera position

Hold the camera where it will live and check the view covers the ground immediately behind the vehicle, not the horizon. Mark the bracket holes or the barrel hole centre.

Step 2 · Decide the trigger

Decide whether the camera and screen come on with the reverse light or with the ignition. Reverse light triggering is simpler; ignition triggering lets the driver use the camera at any time.

Step 3 · Route the cable before fixing anything

Run the full cable from the camera position to the screen position and confirm it reaches with slack to spare, before you drill or cut anything. Route away from exhaust heat and moving suspension parts.

Step 4 · Fit the camera

Fix the bracket or push the barrel through its hole and lock the collar. Seal the panel entry point. Leave a drip loop below the entry so water runs away from the hole.

Step 5 · Fit the screen

Mount the monitor where the driver can see it without moving their head far off the road, and where sunlight does not fall directly across it. Set the tilt angle from the driver's seat, not standing outside the vehicle.

Step 6 · Connect power and video

Connect the video plug at both ends, then the power feed and the trigger. Make joints in dry positions and support the loom so no joint is carrying weight.

Step 7 · Set the camera angle and test

Select reverse, check the picture appears within a second or two, and adjust the camera down angle until the ground close to the bumper is in frame. Test again after dark.

Test It Wet as Well as Dry

The last step most installers skip is a hose test. Run water over the camera and the panel entry point, then check the picture. Water ingress problems that show up months later are almost always visible in a five minute test on the day.

Before You Start: Check These Five Things

Supply voltage	12V or 24V vehicle, confirmed at the vehicle not assumed
Trigger source	Reverse light circuit or switched ignition feed
Connector standard	4 pin aviation for commercial vehicles and long runs, RCA for aftermarket head ends

Routed cable length	Measured along the actual route with slack, not the straight line distance
Mounting position	Confirmed by holding the camera in place and checking the view before drilling

Troubleshooting

Check the Screen Is Actually Powered

A blank screen and a screen showing a blue or black no signal state are different faults. If the backlight is off and no menu appears when a button is pressed, the problem is the monitor power feed, not the camera. Check the fuse, the ignition or reverse light trigger and the ground point before touching anything at the rear of the vehicle.

Check the Input Is Selected

Multi input monitors have a selected channel. If the camera is wired to input two and the monitor is sitting on input one, the screen will show no signal with everything working correctly. On monitors that switch automatically with the reverse trigger, confirm the trigger wire is actually seeing voltage when reverse is selected.

Check the Camera Has Power

Many cameras take power from the reverse light circuit. If the reverse bulb has failed, or the circuit has an LED bulb with an unusual current draw, the camera may not be getting a clean supply. Measure at the camera end of the loom with reverse selected, not at the light unit.

Check the Joints in the Middle

An intermittent picture that comes and goes over bumps is a push fit connector working loose. A picture that failed after a wet week is water in a joint. Open every joint in the run, inspect for corrosion, and remake any joint that is sitting in a spray path or hanging unsupported.

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