

LASERTRACK **IR CAMERA TESTER**

CE

LASERTRACK
FLARE

LASERTRACK IR CAMERA TESTER

Proper installation of LaserTrack Flare is essential for reliable operation of the system. LaserTrack Flare uses infrared light that is invisible to the human eye. Therefore, it is not possible to see whether the adjustment, the alignment vertically and horizontally, is correct. The adjustment using the supplied spirit level gives an indication of the vertical alignment but not of the horizontal alignment of the transponder(s). For that reason we have developed the LaserTrack IR camera tester. This makes the light image of the LaserTrack transponder(s) projected on a wall or door visible on your laptop screen. Aligning the transponder(s) during installation or checking the alignment afterwards becomes very simple in this way.

The LaserTrack IR camera tester consists of the following parts:

- Logitech C920 camera (IR modified) + 904nm pass filter.
- By applying the 904nm filter, this camera gives an almost completely dark image even in illuminated rooms. As a result, the light pattern of the transponder(s) is clearly visible.
- Aluminum Gizomos tripod
- TRACK IR hand-held transmitter

To work with the IR tester, you need a laptop with a free USB port.

Preparation:

- Park the vehicle with the LaserTrack transponder(s) to be tested on a flat (level) surface approx. 2 to 4 meters away from a wall or door on which you can project the light image of the transponder(s). Make sure the vehicle is perpendicular to the wall or door.
- Place the tripod with the camera on either side of the car. Make sure that the tripod is not in the light image of the transponder(s). In the example, the two transponders are marked with a red circle.



- Mark the location on the wall or door with a piece of tape at the same height as that of the transponder (s) and as accurately as possible directly opposite the transponder(s).





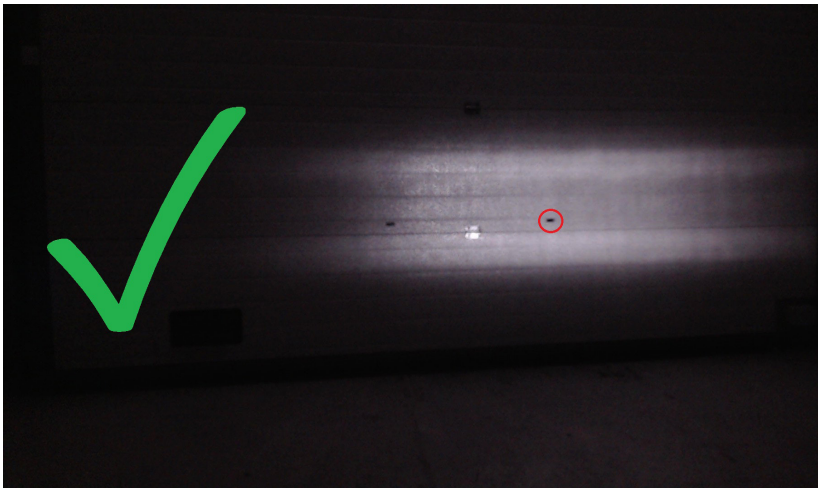
- Connect the camera to the laptop with the USB cable. The Logitech camera is automatically recognized by your PC or Mac after which the software can be installed.

To check the alignment of the transponder(s), proceed as follows:

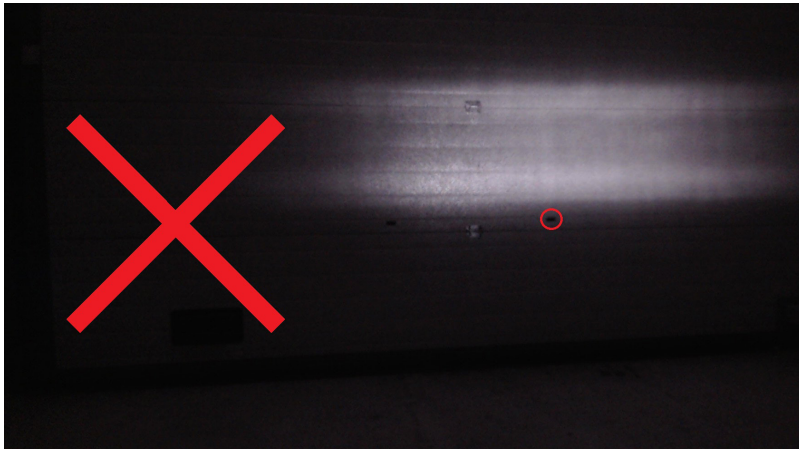
1. Make sure you have downloaded the firmware and installed it on your LaserTrack Flare.
2. Switch on the ignition of the car and switch on LaserTrack Flare.
3. If the vehicle is equipped with more than one transponder, you must test the transponders one at a time for correct alignment. Stick the transponder(s) that you are not yet testing with a piece of black tape or put something in front of it that blocks the light.
4. Point the hand-held transmitter with the IR diode (see arrow) from 10 - 20 cm straight on to the transponder to be tested and press and hold the button on the transmitter.



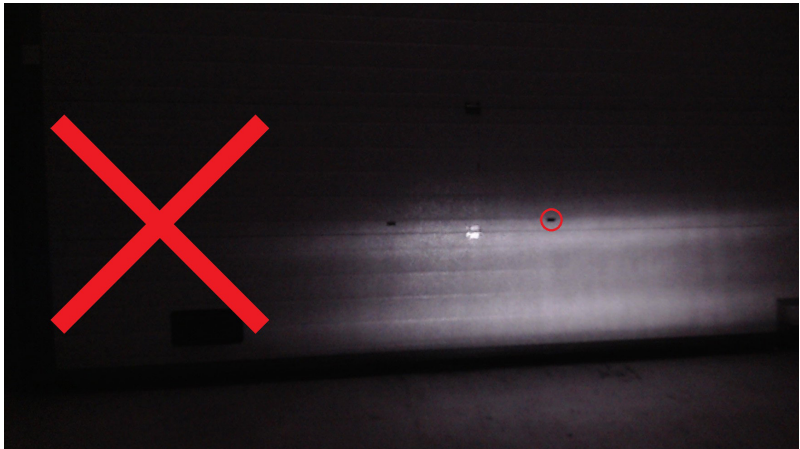
5. Three short beeps sound from the information display. The LED fades green.
6. The transponder now emits a light pattern for 10 seconds. Pay attention! When the beeps sound, immediately move your hand away to prevent the light signal from the transponder from being blocked.
7. The light image will now be visible on the screen of your laptop.
8. There is a correct adjustment if the mark on the door or wall (circled in red on the photo) is exactly in the middle of the light image.



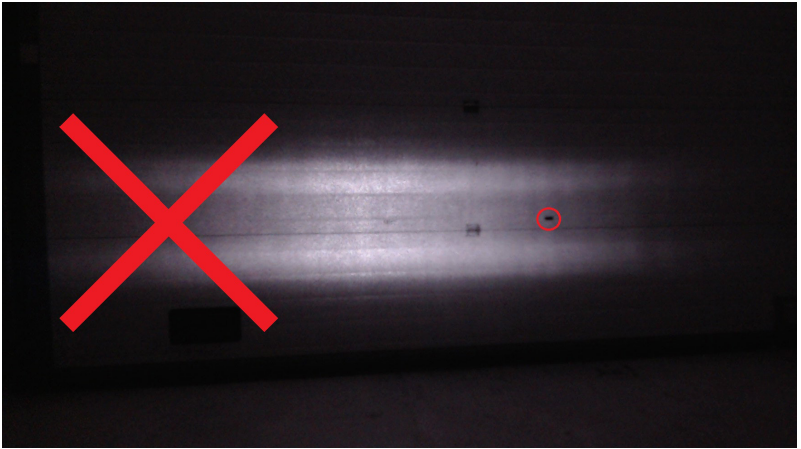
Below are some examples of an incorrect alignment of the transponder(s)



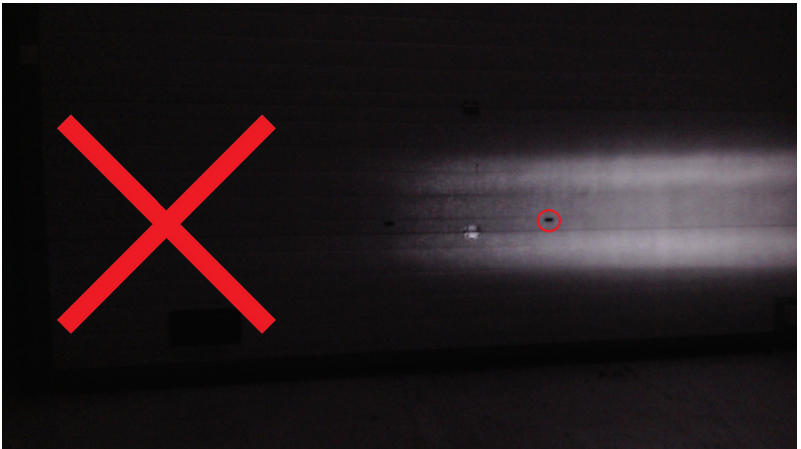
Too high.



Too low.



Deviation to the left.



Deviation to the right.

TECHNICAL DATA:

Camera: Modified Logitech C920
Hand-held transmitter: IR hand transmitter (904nm)
Hand-held transmitter battery: 12V. A23 Alkaline
Battery low indication: the LED on the hand transmitter flashes.
Replace the battery.

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