

# **FASTLIGN**

TOUCHLESS ALIGNMENT CHECK



## INSTALLATION MANUAL

Version 1.2 Rev 001

Please read through all instructions carefully before beginning the installation.

Contact [support@bl-innovare.com](mailto:support@bl-innovare.com) or call 1.855.233.8632 ext. 5. for help.

Remember to include site location, server ID, and pictures when necessary.

# Installation Instructions

## Site requirements

The FASTLIGN system consists of 2 towers installed on either side of a driving lane, and 1 server box. Before the installation of the FASTLIGN towers, the necessary cables should be in place.

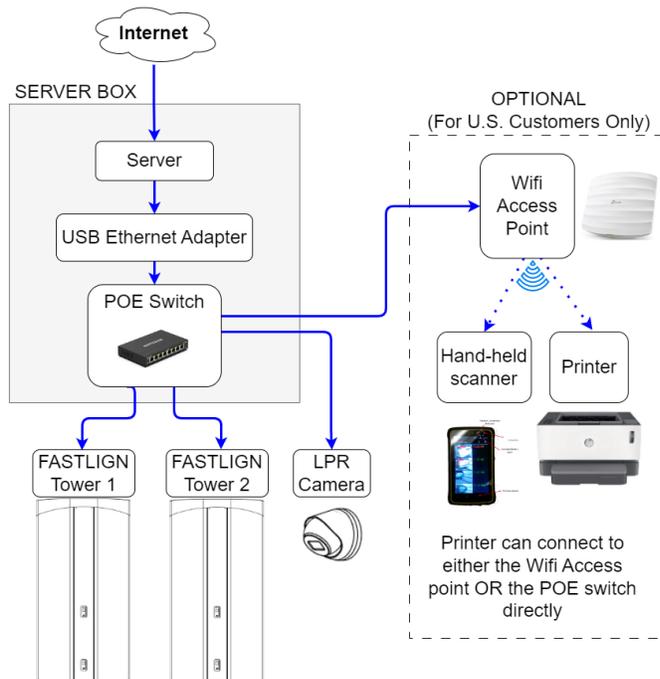
The FASTLIGN server box needs:

- Cabled internet access
- 120-240VAC power

## Server-Tower Cables

The server box is connected to each tower by a cat6 network cable. This powers and provides communication to the towers.

## FASTLIGN Network Configuration

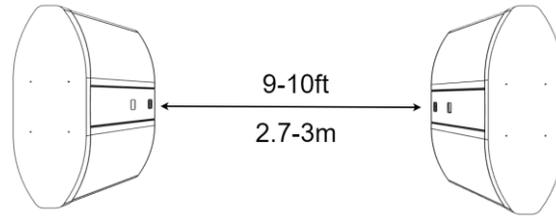


Cabling must be secured along a wall or structure and protected from any potential mechanical damage. Ground cable covering is required if applicable.

## Positioning

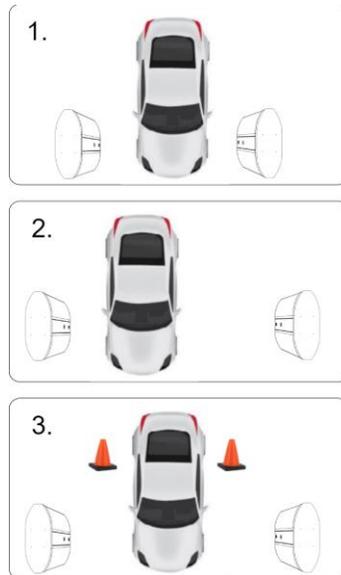
Each FASTLIGN system comes with two functionally identical towers. The following constraints must be considered when positioning the towers:

- The towers must face each other and be 9-10 ft apart.



FASTLIGN TOP VIEW

- Cars must drive straight through the towers. Avoid sections where drivers would be expected to turn while passing between the towers. If drivers turn the steering wheel, it will reduce the reliability of the measurements.



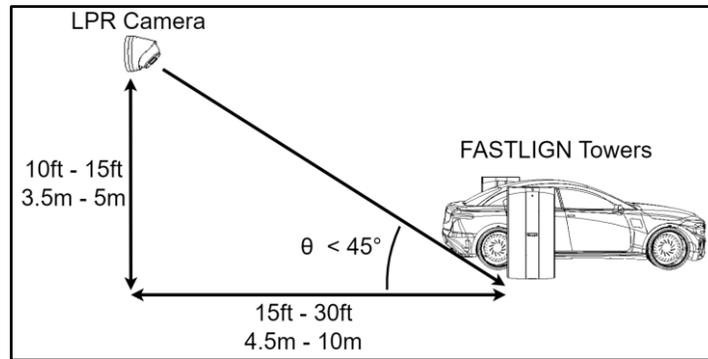
- From the figure above, cars should drive in the center of the towers (1.). If cars tend to drive closer to one tower than the other (2.), consider using cones to control the flow of traffic (3.).
- The driveway must be flat and contain no bumps. Towers should be minimum 1 car length away from an entrance or exit because of the bump at doorways.
- Avoid areas with high sun exposure. Sunlight will negatively affect laser readings.

## Camera Positioning

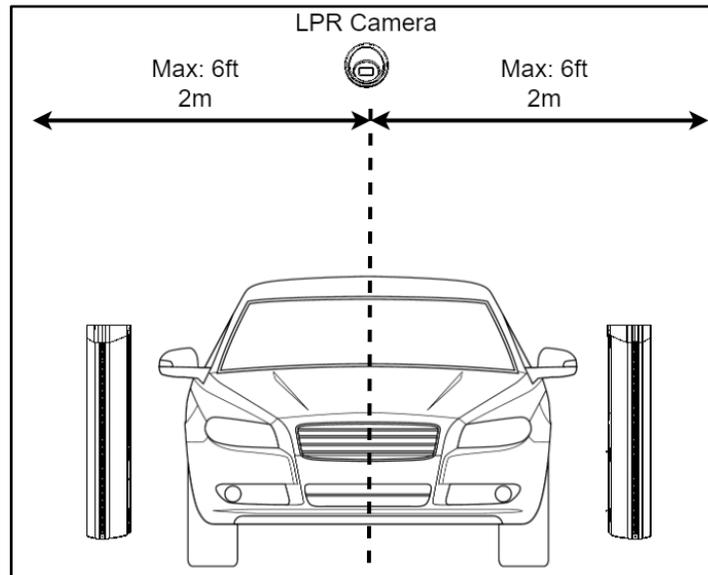
The License Plate Recognition (LPR) Camera must be mounted where it will have a clear view of the rear of a car as it passes through the lane. The height, distance from the towers, and relative position to the center of the driving lane, are all important dimensions to consider when placing the camera. The camera should be:

- 10-15 ft off the ground
- 15-30 ft behind the towers
- As close to the center of the lane as possible, no greater than 6ft off-center.

### Camera Position: Side View



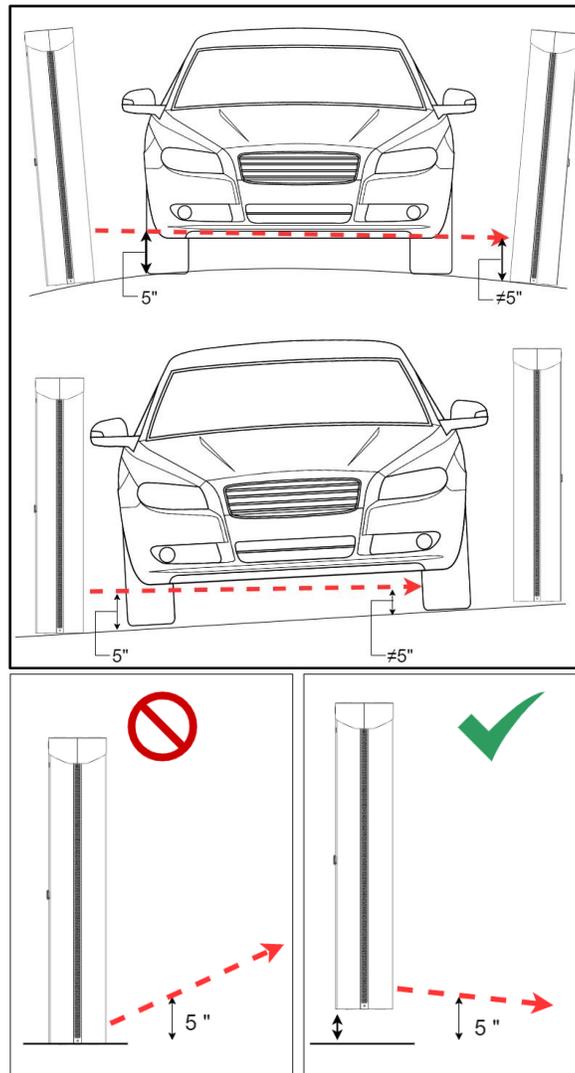
### Camera Position: Front View



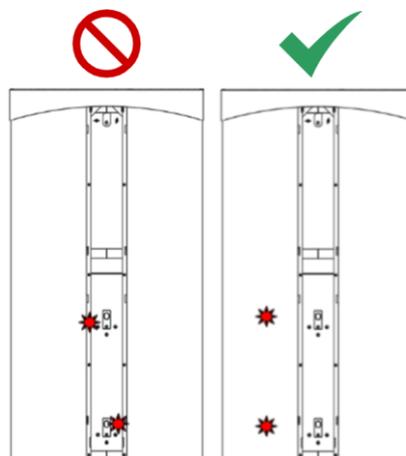
## Laser Calibration

Each FASTLIGN tower has 2 laser sensors that will need to be adjusted upon installation. The Top laser should strike a passing car at 18" off the ground and the bottom laser should strike a passing car at 5" off the ground.

When calibrating the lasers, it is important that the 5" measurement is taken where the tire will be passing, and not at any other point along the laser's beam. This is because some sites will have slightly slanted or curved floors for drainage, so measuring 5" off the ground too close or too far away from where the wheel passes could cause an inaccurate calibration.

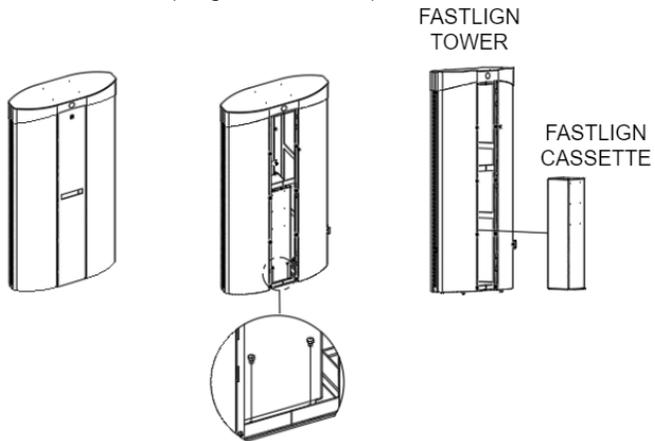


Inspect where the lasers are hitting the opposite tower. If the laser beam from Tower 1 gets too close to the laser emitter on tower 2, then it can cause some interference and confuse the measurement. Make sure to aim the lasers such that they do not hit the opposite lasers.



## Cassette Replacement

The FASTLIGN Cassette is the stainless-steel box inside the FASTLIGN tower that houses the inner circuits and sensors. Cassettes will need to be removed to access the tower mounting holes. The Cassette is fixed by 2xM5 screws and is plugged into the LED strips on the sides of the tower. To remove the cassette, unplug the LED strips and remove the 2 Phillips head screws at the base of the cassette.





INSPIRATION AT WORK

# Hi. We are here to help.

support@bl-innovare.com  
855.233.8632 ext. 5

Request Remote Support Appointment  
<https://zfrmz.com/EOKBVG0wZp6kpYdFLUjd>