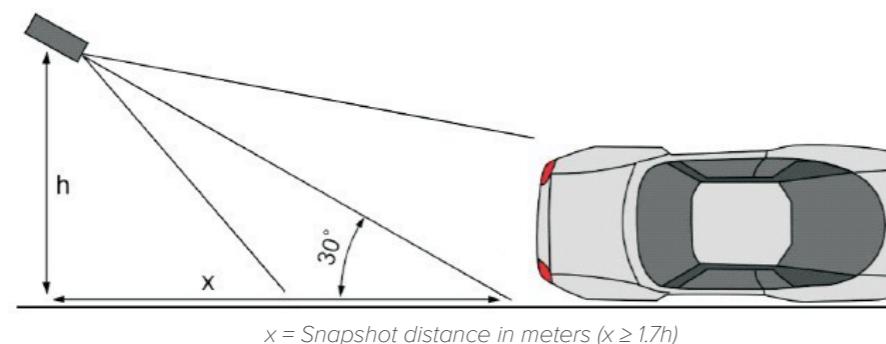


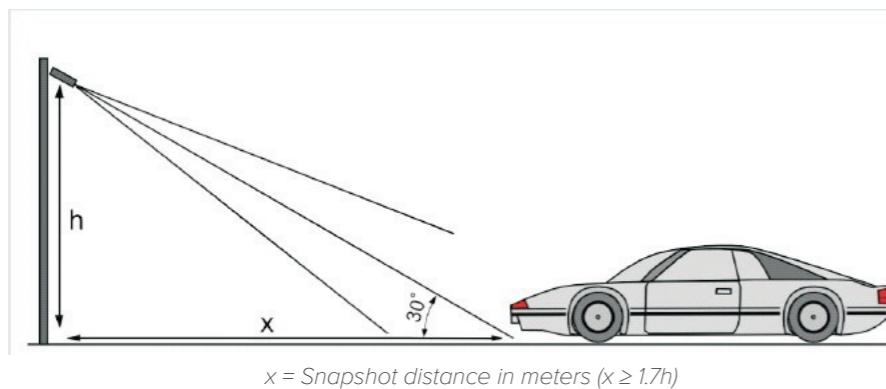
Installation Limitations

The angle between camera lens and the edge of the farthest lane cannot exceed 30° regardless if the camera is installed frontally or on the side. The camera will capture a snapshot up to 1.7 times the height between the placement of the camera and the edge of the farthest lane.

Horizontal Installation Limitations



Vertical Installation Limitations



License Plate Angle

The camera can capture license plates with up to a 5° tilt as shown below.



License Plate Height

The camera can read characters with a height between 20 to 50 px.



Installation Applications

The following table gives the recommended measurements for optimal performance of the camera.

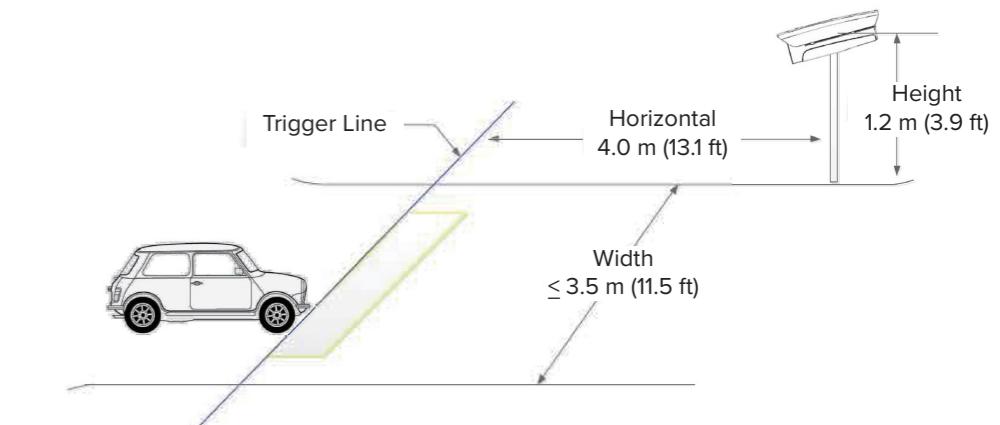
Installation Method	Camera Height	Snapshot Distance (x)	Lane Width	Vehicle Speed
Front	6.0 m (19.7 ft)	25.0 m (82.0 ft)	3.5–7.0 m (11.5–23.0 ft)	≤ 20.0 kmh (≤ 12.4 mph)
Side	2.0 m (6.6 ft)	7.0 m ± 2.0 m (23.0 ft ± 6.6 ft)	3.5 m (11.5 ft)	≤ 20.0 kmh (≤ 12.4 mph)
	3.0 m (9.8 ft)	12.0 m ± 2.0 m (39.4 ft ± 6.6 ft)	3.5–7.0 m (11.5–23.0 ft)	≤ 20.0 kmh (≤ 12.4 mph)
	4.0 m (13.1 ft)	16.0 m ± 2.0 m (52.5 ft ± 6.6 ft)	3.5–7.0 m (11.5–23.0 ft)	≤ 20.0 kmh (≤ 12.4 mph)
	5.0 m (16.4 ft)	16.0 m ± 2.0 m (52.5 ft ± 6.6 ft)	3.5–7.0 m (11.5–23.0 ft)	≤ 20.0 kmh (≤ 12.4 mph)

Front or Side Installation

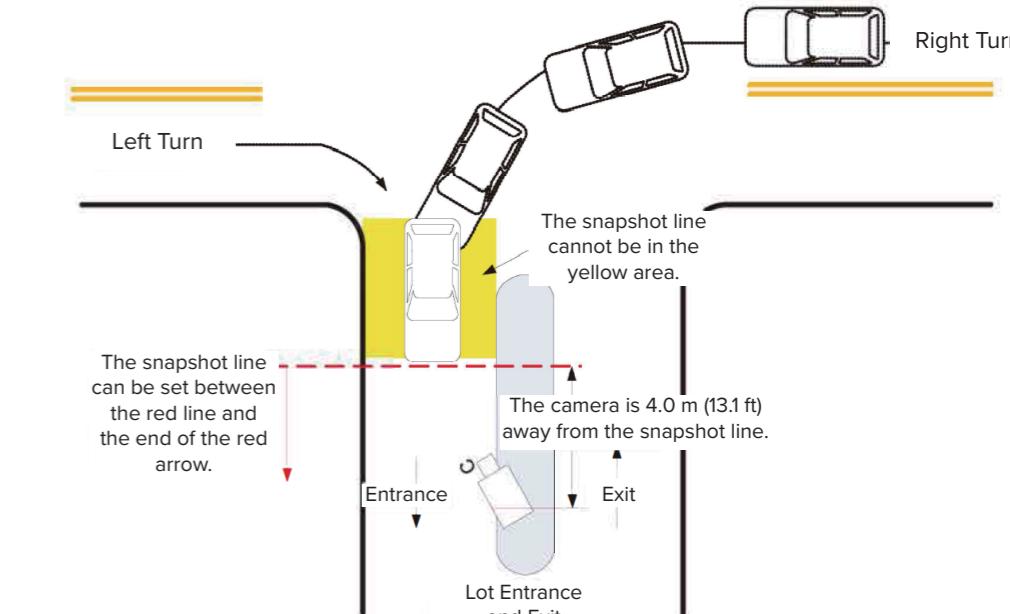
Install the camera at the center of the lane. The camera can be installed below 3.0 m (9.8 ft). Only one lane can be monitored.

Vehicle Entrance Installation

For the best results, it is recommended to install the camera at a height of 1.2 m (3.9 ft). The lane width should not exceed 3.5 m (11.5 ft). If the lane is too wide, place guides on the lane to direct vehicle traffic. The camera will capture a snapshot from 4.0 m (13.1 ft) away.



Ensure the vehicle has made a complete turn and is moving straight to capture a license plate.



Troubleshooting

Below are common issues if the license plate camera is not installed properly.

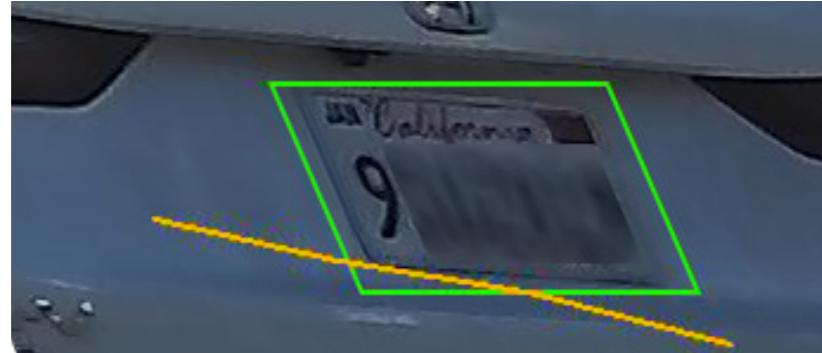
Clarity Issues

If the license plate is not in focus or blurry, the focal length or shutter speed may need to be adjusted.



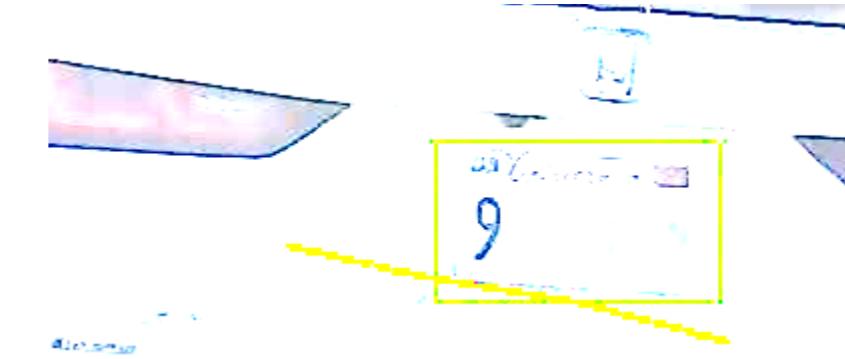
Angle Issues

If the license plate is not in focus or blurry, the focal length or shutter speed may need to be adjusted.



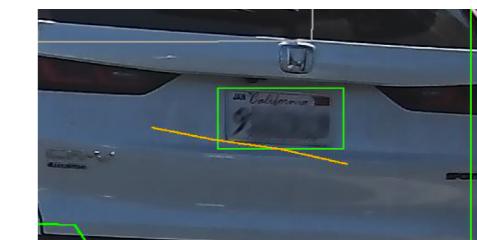
Overexposure

If the license plate is overexposed, the shutter speed or IR light brightness may need to be adjusted.



License Plate Character Too Small or Too Large

If the license plate characters are too small or too large to be captured, the focal length or distance between the camera and vehicle may need to be adjusted.



Insufficient Lighting

If the license plate characters are too small or too large to be captured, the focal length or distance between the camera and vehicle may need to be adjusted.

