

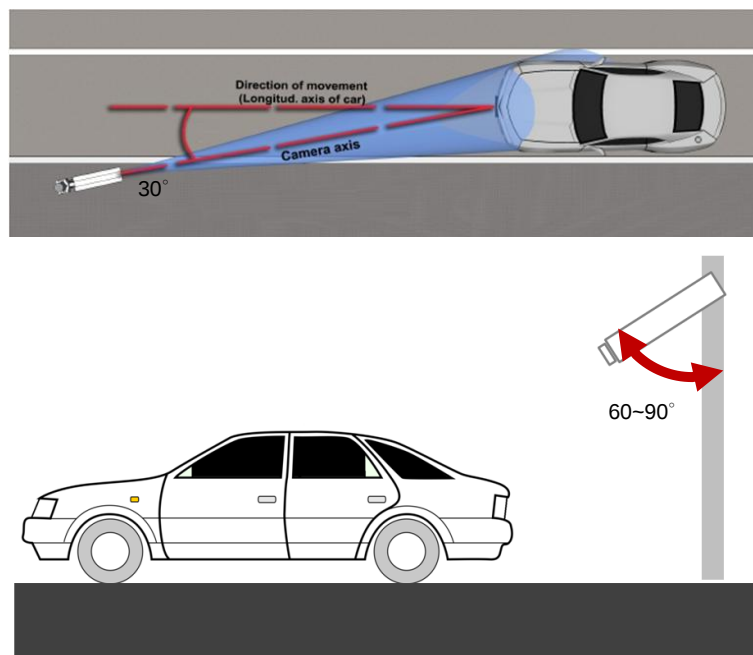
LILIN Navigator ANPR/LPR Installation Guide

Recommended camera installation

LILIN automatic number plate recognition (ANPR/LPR) is Windows base application. LILIN ANPR/LPR can receive IP camera streaming for recognizing car plates. Camera installation angle and video quality will affect recognition rate. A good camera installation can increase accurate rate. .

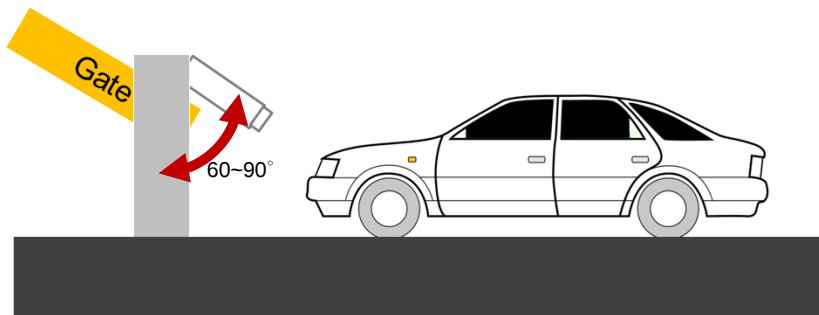
ANPR/LPR camera installation for road application

- Do not perform ANPR/LPR for more than 2 car lanes.
- Do not face camera direct to headlight.
- Do not install camera less than 60 degree vertically in between the camera and the pole.
- Do not install camera more than 30 degree horizontally for camera heading angle.

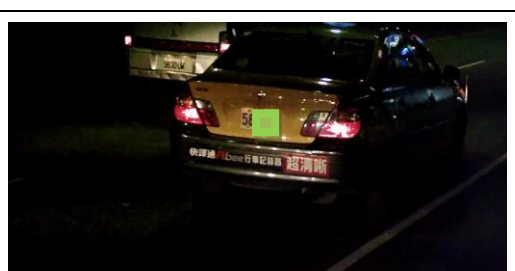
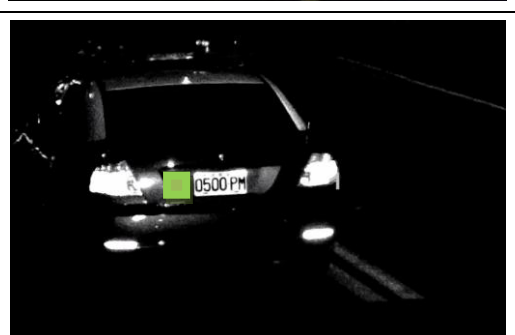


ANPR/LPR camera installation for parking application

- Do not face camera direct to headlight.
- Do not install camera less than 60 degree vertically in between the camera and the pole.



Bad camera installation	Defect	Suggestion
	1. Illumination is not enough. 2. Number plate is too small. 3. FOV is too wide.	1. Increasing illumination: Add infrared illuminators. 2. Number plate too small: Change position of the camera. 3. Zoom in the camera.
	1. FOV is too wide. 2. Camera faces the headlight.	1. Increasing illumination: Add infrared illuminators. 2. Zoom in the camera.
	1. FOV is too wide. 2. Camera facing the headlight 3. Unfocused	1. Zoom in the camera. 2. Move the camera closer to the gate. 3. Adjust focus.
	1. Shutter speed to slow	1. Increase shutter speed at night mode.

Good camera installation	Application
	Parking lot camera installation
	One lane camera installation
	Two lanes camera installation
	White light lighting installation.
	Two lanes street light installaton
	Enhancing light with IR.



The following situations ANPR/LPR might not work

- In the rainy day, the rain drops block the FOV for the number plates.
- In the foggy environment, the fog blocks number plates.
- The car plates reflection caused by sunshine.
- The large vehicle blocks the number plate of a vehicle next to the large vehicle.
- Blurred car plates video cause by strong wind.
- Snowing and snow blocks the number plate.