ANPR Bullet Camera Installation Guide V1.4.1

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1 About This Manual

This document provides guidance on installing and commissioning ANPR bullet cameras. The intended audience includes internal installation and commissioning staff, integrators, project personnel, and maintenance staff. It is strongly recommended to read through this guide before starting on-site construction.

2 Product Introduction

Product Introduction

Model	Description and Specification	Remarks				
	4MP ANPR Bullet Camera(2.8-12mm,PoE,H.265,White Light)					
	4MP ANPR Bullet Camera(2.8-12mm,PoE,H.265,IR)]				
	4MP ANPR Bullet Camera (2.8-12mm,PoE,H.265,white light)	Recommended				
	4MP ANPR Bullet Camera (2.8-12mm,PoE,H.265,IR)	for entrance & exit scenes				
	3MP ANPR Bullet Camera(2.8-12mm,PoE,H.265,White Light)					
	3MP ANPR Bullet Camera(2.8-12mm,PoE,H.265,IR)	7				
GV-B4MP-IP-8-32-LED50LPR	4MP ANPR Bullet Camera(8-32mm,PoE,H.265,White Light)					
	4MP ANPR Bullet Camera(8-32mm,PoE,H.265,IR)					
	4MP ANPR Bullet Camera (8-32mm,PoE,H.265,white light)	Recommended				
	4MP ANPR Bullet Camera (8-32mm,PoE,H.265,IR)	for road scenes				
GV-B4MP-IP-10-50-LED50LCWP	4MP ANPR Bullet Camera (10-50mm,PoE,H.265,white light)					
	4MP ANPR Bullet Camera (10-50mm,PoE,H.265,IR)					
	2MP ANPR Bullet Camera(4.7-47mm,Starlight,PoE,H.265,White Light)	Applicable to				
	2MP ANPR Bullet Camera(4.7-47mm,Starlight,PoE,H.265,IR)	entrance & exit and road scenes				

3 Site Survey

Before conducting site survey, it is essential to understand the project overview, including: project background, scale, quality objectives, and project start and completion dates. Thoroughly review tender documents, engineering contracts, design plans, and drawings. Upon arriving at the site, conduct the survey based on the above project information, to assess the actual on-site conditions. This is followed by aligning with the client's specific layout requirements to determine the construction details.

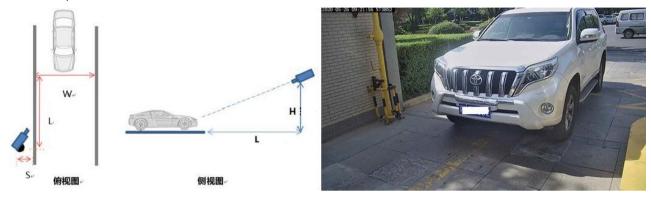
3.1 Site Survey Considerations

3.1.1 Entrance & Exit Scene

1) Supported speed ≤ 30 km/h.

- 2) Side installation is recommended for the camera. The ideal environment is a vehicle passage width between 3-4.5 meters, with a depth ensuring at least 3 meters of space beyond the capture point, so that the vehicle can align properly when passing the capture point. If the on-site environment significantly differs from the ideal, contact us to confirm the installation plan.
- 3) Avoid obstructions to illuminator and image capture from road signs, guide signs, trees, kiosks, or other structures.

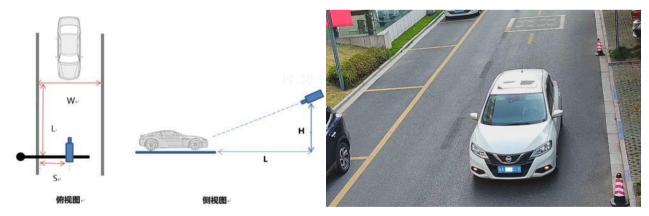
Normal Snapshot in Entrance & Exit Scene



3.1.2 Road Scene

- 1) Supported speed ≤ 80 km/h.
- 2) Front installation is recommended for the camera. The ideal environment is a straight road; if there are curves or steep uphill/downhill sections, contact us to confirm the installation plan.
- 3) Verify the feasible pole installation position at the site, as this may affect capture rate.
- 4) Avoid obstructions to illuminator and image capture from road signs, guide signs, trees, kiosks, or other structures.

Normal Snapshot in Road





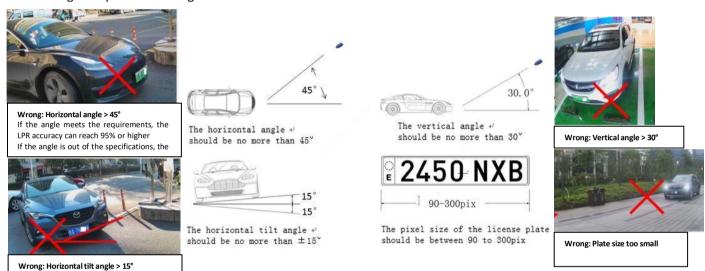
Installation Scheme

4.1 Angle Requirements Diagram

Installation Requirements

- 1) The horizontal angle between the camera installation position and the license plate center should not exceed 45°.
- 2) The vertical angle should not exceed 30° (recommended angle is approximately 20°).
- 3) The horizontal tilt angle of the license plate should not exceed ±15°.
- 4) The pixel size of the license plate should be 90 to 300(optimal: about 130).

Angle Requirements Diagram



4.2 Project Scheme Comparison Table

Comparison Table

Scene	Device Model	Road Width W (m)	Camera Height H (m)	Capture Distance L (m)	Camera- to- Roadside Distance S (m)	Recommended Plan	Supported Speed (km/h)
		W≤4	1.5-2	3-11		H=1.5m, L=4m	
Entrance & Exit		4 <w≤5< td=""><td>2-2.5</td><td>4-13</td><td>0-0.3</td><td>H=2m, L=5m</td><td>V≤30</td></w≤5<>	2-2.5	4-13	0-0.3	H=2m, L=5m	V≤30
		5 <w≤6< td=""><td>2.5-3</td><td>5-16</td><td></td><td>H=2.5m, L=7m</td><td></td></w≤6<>	2.5-3	5-16		H=2.5m, L=7m	
	GV-B4MP-IP-8-32-LED50LPR	6 <w≤7< td=""><td rowspan="4">3-6</td><td rowspan="4">6-48</td><td rowspan="4">0-7</td><td>H=3m, L=8 m</td><td rowspan="12">V≤80</td></w≤7<>	3-6	6-48	0-7	H=3m, L=8 m	V≤80
						H=4m, L=10m	
						H=5m, L=13m	
						H=6m, L=16m	
		6 <w≤7< td=""><td rowspan="4">3-6</td><td rowspan="4">6-60</td><td rowspan="4">0-7</td><td>H=3m, L=8m</td></w≤7<>	3-6	6-60	0-7	H=3m, L=8m	
						H=4m, L=10m	
Road						H=5m, L=13m	
						H=6m, L=16m	
	GV-B4MP-IP-10-50-LED50LCWP	6 <w≤7< td=""><td rowspan="4">3-6</td><td rowspan="4">6-55</td><td rowspan="4">0-7</td><td>H=3m, L=8m</td></w≤7<>	3-6	6-55	0-7	H=3m, L=8m	
						H=4m, L=10m	
						H=5m, L=13m	
						H=6m, L=16m	