

2MP ANPR Bullet Camera

HC121



Features

Optics

- Starlight optical sensor and integrated IR illuminator produce clear images in night environments and reduce light pollution.
- 4 LED IR illumination beads provide up to 50m illumination.
- 2MP industrial-grade sensor delivers 1920 x 1080 images.
- Motorized zoom lens enables flexible focal length adjustment and easy installation.
- Automatic gain control, white balance, and WDR for various light conditions.

Compression

- Up to 1080P@60fps image collection format.
- 1 image stream, 3 video streams.
- Up to 1080P@60fps live video streams.
- Advanced H.265 encoding technology improves compression efficiency.
- Custom OSD allows various vehicle information to be overlaid on the video image.

Functions

- Built-in vehicle&license plate recognition algorithm can recognize standard license plates of multiple countries.
- Supports capturing vehicle head only.
- Supports allowlist and blocklist configuration.
- Supports vehicle access control when connected to a barrier.
- Supports Micro SD cards of up to 128GB.
- Supports Automatic Network Replenishment (ANR), the camera can automatically store video to its SD card in case of network disconnection.
- Supports audio acquisition and intercom.

Network

Network auto-adaptability ensures fluent live video in relatively bad

network conditions such as packet loss.

- Supports SNMP.
- Supports UNP for NAT traversal between public and private networks
- Supports integration by the third party via SDK or HTTP.

Network Security

- Supports authorized user access by password. Weak password detection and account lock-up when failed login attempts reach the upper limit enhance password security.
- Supports HTTPS.
- RTSP authentication prevents unauthorized video stream requests.
- IP address filtering prevents illegal access from untrusted IP addresses.
- Gateway ARP protection prevents MAC address spoofing.

Structure

- Supports DC 12V, and PoE (802.3at) power supplies.
- Cast aluminum body offers excellent heat dissipation.
- 3-axis mounting bracket for various installation scenarios.
- Junction box for cabling.
- IP67, IK10.

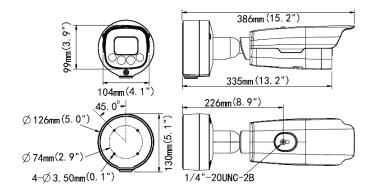
Specifications

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Camera	Description		
Sensor	1/2.8" 2MP CMOS		
Focal length	4.7 to 47mm, motorized zoom		
Shutter	Auto/Manual, range: 1/25 to 1/100000 s		
Minimum illumination	0.001lux (F1.6)		
Image	Description		
Image collection format	1080P@25 (default), 1080P@30, 1080P@50, 1080P@60		
Resolution	Main stream: 1080P (default), 720P, D1 Sub stream: 720P (default), D1, 2CIF, CIF Third stream: D1 (default), 2CIF, CIF		
Frame rate	60, 50, 30, 25 (default), 22, 20, 18, 16, 15, 12.5, 10, 8, 6, 5, 4, 3, 2, 1 H.264 (default), H.265		
Video compression			
ROI	Supports up to 8 regions		
Video OSD	Supports 8 overlay areas and allows contents including date, time, date&time, zoom ratio, custom contents		
Image OSD	Supports 8 overlay areas and allows contents including time, license plate number, device ID, camera ID, allowlist, image authentication ID, custom contents (3 items), location		
Smart	Description		
Application scenario	Vehicle speed ≤30km/h Supports simultaneous application to entry/exit scenes		



Vehicle detection mode	Video (default) or inductive loop	
Capture vehicle head only	Support	
License plate number recognition	Supports recognition of license plates with numbers and letters by default	
List configuration	Supports allowlist and blocklist configuration, each list allows 20,000 items Supports import, export, add, and delete operations	
Barrier opening policy	Open barrier only for the recognized vehicles Open barrier for all vehicles Open barrier only for vehicles on the allowlist Open barrier for vehicles not on the blocklist Configurable Boolean output ID	
Storage	Description	
Edge storage	Supports ANR with a Micro SD card, up to 128GB	
Structure	Description	
Illumination	Built-in integrated illumination module, including 4 IR LEDs, 50m illumination distance, automatic on/off control	
Sunshield	Long sunshield	
Bracket	3-axis mounting bracket	
Junction box	The camera comes with a junction box for storing tail cable	
Interface	Description	
Network interface	1 × 10M/100M RJ45	
Serial port	1 × RS485	
Boolean output	1 relay output, withstand voltage: AC 125V/0.3A, DC 30V/1A	
Boolean input	2 inputs supports level/Boolean with max level	
Audio interface	1 × audio input, 1 × audio output	
Storage interface	1 × Micro SD card slot	
General	Description	
	DC12V + 25% - 10%	
Power supply	Max. power consumption: 20W	
	Supports PoE (802.3at, class 4)	
Dimensions (L×W×H)	386mm x 126mm x 130mm	
Weight	2kg	
Operating environment	-40°C to 60°C, ≤90% RH	
Ingress protection	n IP67, IK10	

Dimensions



Application

The HC121 series is mainly used to recognize vehicle license plates on roads of the entrance/exit of parks. With an intelligent illumination system, it can detect, recognize and capture vehicles in all weather conditions. It features high vehicle capture rate and high plate recognition accuracy.

Order Information

Model Configuration		Remarks
HC121	TS8CR-Z	2MP ANPR Bullet Camera (4.7 to 47mm, starlight, PoE, H.265, IR)

Recommended Accessories

Mount	Bracket	Example	Remarks
Wall	Wall \	١	Use the mount kit delivered
mount			with the camera
Pendant	1	\	Use the mount kit delivered
mount			with the camera
Pole mount	TR-UP06 -C-IN	•	Pole Mount Adapter





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