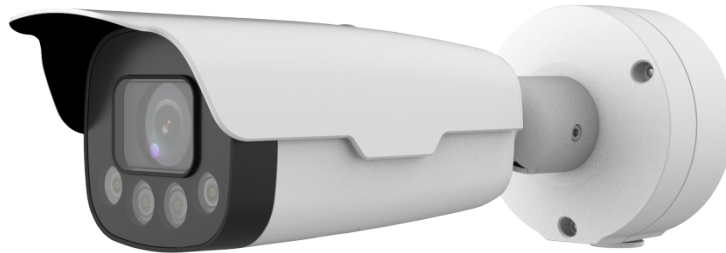# UNV  2MP ANPR Bullet Camera(4.7-47mm,starlight,PoE,H.265,IR) Datasheet V1.00

## HC121@TS8CR-Z



## 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 simultaneous application to road and entry/exit scenes without switching.

- Supports license plate detection and recognition for up to 2 lanes in road scenes.

- Supports capturing vehicle head only.

- Supports recognition of up to 10 vehicle body colors.

- 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.

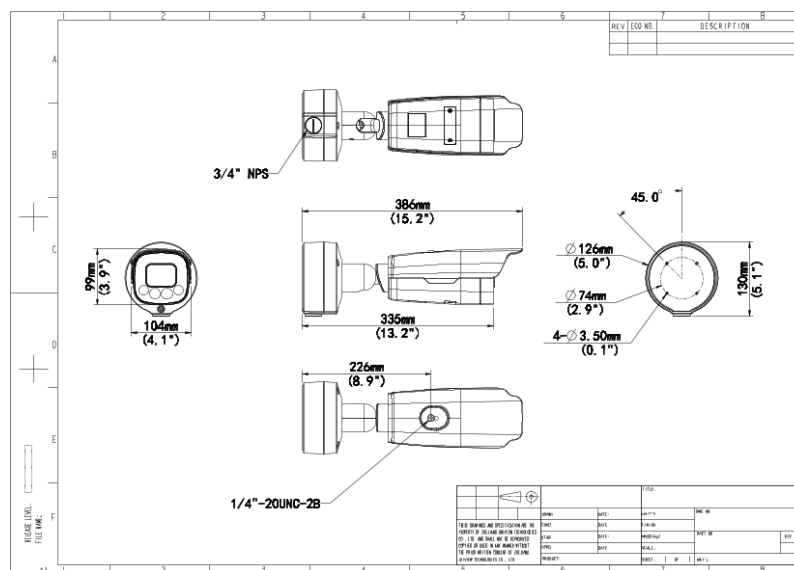- Junction box for cabling.

- IP67, IK10.

## Specifications

| BOM | Description |
|-----|-------------|
| BOM | 0235C5WL |
| 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<br>Sub stream: 720P (default), D1, 2CIF, CIF<br>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 |
| Video compression | H.264 (default), H.265 |
| 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 | ≤ 30km/h for entrances and exits, ≤ 80km/h for regular roads;<br>Supports simultaneous application to road and entry/exit scenes without switching |
| Vehicle detection mode | Video (default) or inductive loop |
| 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<br>Supports import, export, add, and delete operations |
| Barrier opening policy | Open barrier only for the recognized vehicles<br>Open barrier for all vehicles<br>Open barrier only for vehicles on the allowlist<br>Open barrier for vehicles not on the blocklist<br>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 up to DC 5V |
| Audio interface | 1 × audio input, 1 × audio output |
| Storage interface | 1 × Micro SD card slot |
| **General** | **Description** |
| Power supply | DC12V + 25% - 10% |

| | Max. power consumption: 20W<br>Supports PoE (802.3at, class 4) |
|---|---|
| Dimensions (L×W×H) | 386mm x 126mm x 130mm |
| Weight | 2kg |
| Operating environment | -40℃ to 60℃, ≤90% RH |
| Ingress protection | IP67, IK10 |

# Dimensions



# Ordering Info

| Product Model | Config | Description |
|---|---|---|
| HC121 | TS8CR-Z | 2MP ANPR Bullet Camera(4.7-47mm,starlight,PoE,H.265,IR) |

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