

# 8MP LightHunter WDR Network Dome Camera IPC3238EA



## Features

- High quality image with 8 MP, 1/1.8" CMOS sensor
- 3840 × 2160@60 fps in the main stream, offering smoother live video and more details
- Ultra 265, H.265, H.264, MJPEG
- Wise-ISP technology, comprehensive improvement in image quality
- Metadata analysis, supports human body, motor vehicle and non-motor vehicle image capture and attribute collection, realizes data visualization management, allows users to get target information for further data analysis
- supports front-end comparison, supports blocklist and allowlist comparison, increases the concurrent detection number up to 120
- Smart intrusion prevention, supports false alarm filtering, including cross line, intrusion, enter area, leave area detection
- People counting, supports people flow counting and crowd density monitoring, suitable for different statistical scenarios
- LightHunter technology ensures ultra high image quality in low illumination environment
- Up to 140 dB optical WDR (wide dynamic range)
- DC 12 V, PoE (IEEE 802.3at) power supply
- Wide voltage range of  $\pm 25\%$  in DC

## Specifications

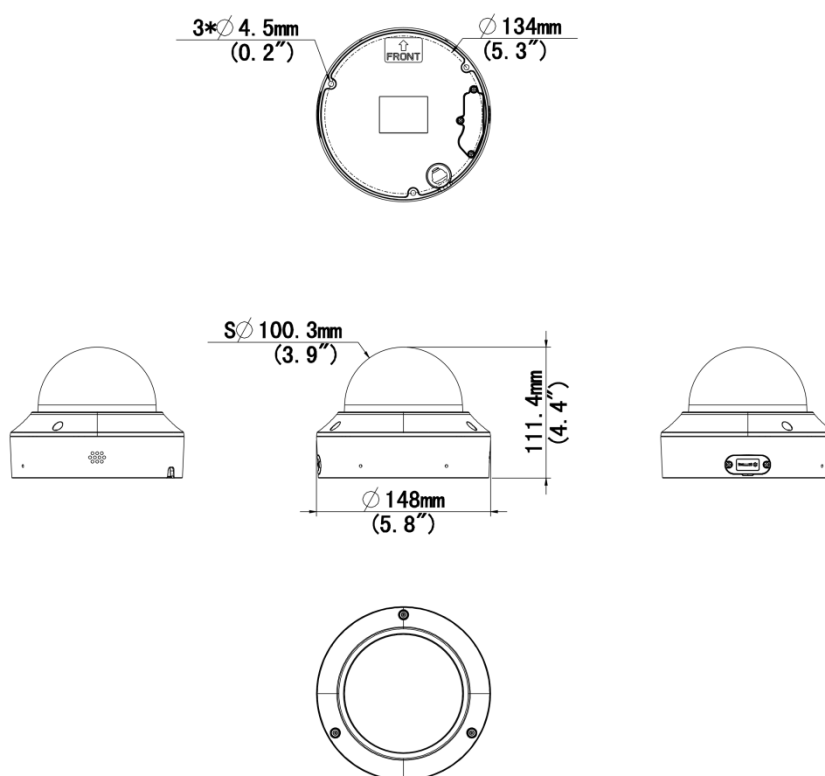
| Model  | IPC3238EA-AHDZK-I1 | IPC3238EA-AHDX4K-I1 |
|--------|--------------------|---------------------|
| Camera |                    |                     |
| Sensor | 1/1.8" CMOS        |                     |

|                            |                                                                                                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Min. Illumination          | Color: 0.001 Lux (F1.2, AGC ON), BW: 0.0005 Lux (F1.2, AGC ON), 0 Lux with IR                              | Color: 0.003 Lux (F1.6, AGC ON), BW: 0.002 Lux (F1.6, AGC ON), 0 Lux with IR |
| Day/Night                  | IR-cut filter with auto switch (ICR)                                                                       |                                                                              |
| Shutter                    | Auto/Manual, 1 to 1/100000 s                                                                               |                                                                              |
| WDR                        | 140 dB                                                                                                     |                                                                              |
| S/N                        | >56 dB                                                                                                     |                                                                              |
| Lens                       |                                                                                                            |                                                                              |
| Focal Length               | 2.8 to 12 mm                                                                                               | 8 to 32 mm                                                                   |
| Optical Zoom               | 4X                                                                                                         |                                                                              |
| Iris                       | F1.2                                                                                                       | F1.6                                                                         |
| Field of View (H)          | 102.5° to 48.5°                                                                                            | 42° to 15.3°                                                                 |
| Field of View (V)          | 55.1° to 27.2°                                                                                             | 22.6° to 8.8°                                                                |
| Field of View (D)          | 126.08° to 59.66°                                                                                          | 51.66° to 18.05°                                                             |
| Iris Type                  | P-iris                                                                                                     |                                                                              |
| DORI                       |                                                                                                            |                                                                              |
| DORI Distance (Detect)     | 108.0 m to 180.0 m (354.3 ft. to 590.6 ft.)                                                                | 240.3 m to 644.4 m (788.4 ft. to 2114.2 ft.)                                 |
| DORI Distance (Observe)    | 43.2 m to 72.0 m (141.7 ft. to 236.2 ft.)                                                                  | 96.1 m to 257.8 m (315.4 ft. to 845.7 ft.)                                   |
| DORI Distance (Recognize)  | 21.6 m to 36.0 m (70.9 ft. to 118.1 ft.)                                                                   | 48.1 m to 128.9 m (157.7 ft. to 422.8 ft.)                                   |
| DORI Distance (Identify)   | 10.8 m to 18.0 m (35.4 ft. to 59.1 ft.)                                                                    | 24.0 m to 64.4 m (78.7 ft. to 211.4 ft.)                                     |
| Illuminator                |                                                                                                            |                                                                              |
| Illumination Distance (IR) | 40 m (131.2 ft.)                                                                                           |                                                                              |
| Wavelength                 | 850 nm                                                                                                     |                                                                              |
| IR On/Off Control          | Auto/Manual                                                                                                |                                                                              |
| Video                      |                                                                                                            |                                                                              |
| Frame Rate-Main Stream     | 8 MP (3840 × 2160), max. 60 fps                                                                            |                                                                              |
| Video Compression          | Ultra 265, H.265, H.264, MJPEG                                                                             |                                                                              |
| Frame Rate-Sub Stream      | 1080P (1920 × 1080), max. 60 fps                                                                           |                                                                              |
| Video Bit Rate             | 128 Kbps to 16 Mbps                                                                                        |                                                                              |
| ROI                        | Support                                                                                                    |                                                                              |
| Privacy Mask               | Up to 8 areas (8 blacks / 8 mosaics)                                                                       |                                                                              |
| Video Stream               | Triple streams                                                                                             |                                                                              |
| OSD                        | Up to 10 OSDs                                                                                              |                                                                              |
| Frame Rate-Third Stream    | D1 (720 × 576), max. 60 fps                                                                                |                                                                              |
| Image                      |                                                                                                            |                                                                              |
| White Balance              | Auto&Outdoor&Fine Tune&Sodium Lamp&Locked&Auto2                                                            |                                                                              |
| Digital Noise Reduction    | 2D/3D DNR                                                                                                  |                                                                              |
| Smart IR                   | Support                                                                                                    |                                                                              |
| Flip                       | Normal&Flip Vertical&Flip Horizontal&180°&90°Clockwise&90°Anti-clockwise                                   |                                                                              |
| HLC                        | Support                                                                                                    |                                                                              |
| Defog                      | Digital defog                                                                                              |                                                                              |
| Intelligent                |                                                                                                            |                                                                              |
| Metadata Analyse           | Support human body, human face, motor vehicle and non-motor vehicle image capture and attribute collection |                                                                              |

|                            |                                                                                                                                                                                                                     |                                                                                    |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Recognition                | Face recognition: Max support 16 face libraries; Max supports 100000 faces in face library                                                                                                                          |                                                                                    |
| People Counting            | Support people flow counting and crowd density monitoring                                                                                                                                                           |                                                                                    |
| Exception Detection        | Object removed Object Left Behind Scene change Defocus detection                                                                                                                                                    | Object removed Object Left Behind                                                  |
| Smart Intrusion Prevention | Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)                                |                                                                                    |
| Events                     |                                                                                                                                                                                                                     |                                                                                    |
| Basic Detection            | Motion detection Tampering alarm Audio detection Object removed Object Left Behind Scene change Defocus detection                                                                                                   | Motion detection Tampering alarm Audio detection Object removed Object Left Behind |
| General Function           | Watermark&IP Address Filtering&Access Policy&ARP Protection&RTSP Authentication&User Authentication&HTTP authentication&Alarm input&Alarm output                                                                    |                                                                                    |
| Audio                      |                                                                                                                                                                                                                     |                                                                                    |
| Audio Compression          | G.711U&G.711A                                                                                                                                                                                                       |                                                                                    |
| Audio Bitrate              | 128 Kbps                                                                                                                                                                                                            |                                                                                    |
| Two-way Audio              | Support                                                                                                                                                                                                             |                                                                                    |
| Suppression                | Support                                                                                                                                                                                                             |                                                                                    |
| Sampling Rate              | 8 kHz, 16 kHz                                                                                                                                                                                                       |                                                                                    |
| Storage                    |                                                                                                                                                                                                                     |                                                                                    |
| Edge Storage               | MicroSD, up to 512 GB                                                                                                                                                                                               |                                                                                    |
| Network Storage            | ANR&NAS(NFS)                                                                                                                                                                                                        |                                                                                    |
| Network                    |                                                                                                                                                                                                                     |                                                                                    |
| Protocols                  | IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH, TLS1.3                                                    |                                                                                    |
| Compatible Integration     | ONVIF (Profile S, Profile G, Profile T, Profile M), API, SDK                                                                                                                                                        |                                                                                    |
| User/Host                  | Up to 32 users. 3 user levels: administrator, common user and operator                                                                                                                                              |                                                                                    |
| Security                   | Password Protection, Strong Password, HTTPS Encryption, Export Operation Logs, Basic and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2, WSSE and Digest Authentication for ONVIF, TLS 1.3 |                                                                                    |
| Client                     | EZStation, UNV-Link, UNV-Link Pro                                                                                                                                                                                   |                                                                                    |
| Web Browser                | Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above&Plug-in free live view: Chrome 57.0 and above, Firefox 58.0 and above, Edge 16 and above                  |                                                                                    |
| Interface                  |                                                                                                                                                                                                                     |                                                                                    |
| Audio I/O                  | 2 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V [p-p]                                                                                                                    |                                                                                    |
| Alarm I/O                  | 3/2                                                                                                                                                                                                                 |                                                                                    |
| Serial Port                | 1 × RS485                                                                                                                                                                                                           |                                                                                    |
| Built-in Mic               | Support, built-in mic*2                                                                                                                                                                                             |                                                                                    |
| Built-in Speaker           | Support                                                                                                                                                                                                             |                                                                                    |
| Network                    | 1 × RJ45 10 M/100 M/1000 M Base-TX Ethernet                                                                                                                                                                         |                                                                                    |
| Certification              |                                                                                                                                                                                                                     |                                                                                    |
| EMC                        | CE EMC (EN 55032: 2015+A1:2020,EN 61000 3 3: 2013+A1: 2019,EN IEC 61000 3 2: 2019+A1: 2021,EN 55035: 2017+A11:2020)FCC (FCC CFR 47 part15 B, ANSI C63.4 2014)                                                       |                                                                                    |

|                       |                                                                                            |                    |
|-----------------------|--------------------------------------------------------------------------------------------|--------------------|
| Safety                | CE LVD (EN 62368 1:2014+A11:2017)UL (UL 62368 1, 2nd Ed., Issue Date: 2014 12 01)          |                    |
| Environment           | CE RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) |                    |
| Protection            | IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)IK10 (IEC 62262:2002)                             |                    |
| General               |                                                                                            |                    |
| Power                 | DC 12 V (±25%), PoE+ (IEEE 802.3at)                                                        |                    |
| Power Consumption     | Max. 19 W                                                                                  |                    |
| Power Interface       | Ø5.5 mm coaxial power plug                                                                 |                    |
| Dimensions            | Ø148 mm × 111.4 mm (Ø5.8" × 4.4") (Ø × H)                                                  |                    |
| Built-in DC12V Output | Support                                                                                    |                    |
| Weight                | 1.04 kg (2.29 lb.)                                                                         | 1.07 kg (2.36 lb.) |
| Working Environment   | -40°C ~60°C(-40°F~ 140°F)                                                                  |                    |
| Surge Protection      | 6 KV                                                                                       |                    |
| Heater                | Support                                                                                    |                    |

## Dimensions



## Accessories

**TR-JB04-C-IN**

Junction Box for 323 Series  
Fix-dome(Support wiring from behind)

**TR-JB07/WM04-B-IN**

4 Inch Back Hole Hemisphere Wall  
Mounting Assembling Bracket

**TR-WM04-IN**

4 Inch Hemisphere Wall Mounting Bracket

**TR-FM152-A-IN**

In-ceiling Bracket for 323 Series  
Fix-dome

**TR-SM04-IN**

Switch Box Adapter for 323 Series  
Fix-dome

**TR-A01-IN**

NPT 3/4" Waterproof Cable Gland

**TR-UP06-IN**

Universal Pole Mounting Bracket

**TR-UC08-C**

Bullet&Dome Corner Mounting Bracket

**Zhejiang Uniview Technologies Co., Ltd.**

<http://www.uniview.com>



[overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)



No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China  
(Zhejiang) Pilot Free Trade Zone, China



©2023-2025 Zhejiang Uniview Technologies Co., Ltd. All rights reserved.

\*Product specifications and availability are subject to change without notice.

\*Despite our best efforts, technical or typographical errors may exist in this document.

Uniview cannot be held responsible for any such errors and reserves the right to change the contents of this document without prior notice.