



## NC458G2-PDL/LU

### 8 MP Panoramic Fixed Turret Network Camera



ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses, high performance sensors and friendly lighting. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- High quality imaging with 8 MP resolution
- One image that presents all the scenes covered by the camera
- 24/7 colorful imaging
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 130 dB WDR technology
- Focus on human and vehicle classification based on deep learning
- Active strobe light and audio alarm to warn intruders off
- Water and dust resistant (IP67)

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## 8 MP Panoramic Fixed Turret Network Camera

### ■ Specification

| Camera                      |                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 2 × 1/1.8" Progressive Scan CMOS                                                                                                                                                                          |
| Max. Resolution             | 5120 × 1440                                                                                                                                                                                               |
| Min. Illumination           | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light                                                                                                                                                      |
| Shutter Time                | 1/3 s to 1/100,000 s                                                                                                                                                                                      |
| Angle Adjustment            | Pan: -30° to 30°, tilt: -75° to 75°                                                                                                                                                                       |
| Lens                        |                                                                                                                                                                                                           |
| Lens Type                   | Fixed focal lens, Dual lens: 4 mm                                                                                                                                                                         |
| Focal Length & FOV          | Horizontal FOV: 180° ± 10°<br>Vertical FOV: 44°                                                                                                                                                           |
| Lens Mount                  | M16                                                                                                                                                                                                       |
| Iris Type                   | Fixed                                                                                                                                                                                                     |
| Aperture                    | F1.0                                                                                                                                                                                                      |
| Depth of Field              | 3.6 m to ∞                                                                                                                                                                                                |
| DORI                        |                                                                                                                                                                                                           |
| DORI                        | 4 mm, D: 77 m, O: 30 m, R: 15 m, I: 7 m                                                                                                                                                                   |
| Illuminator                 |                                                                                                                                                                                                           |
| Supplement Light Type       | White Light                                                                                                                                                                                               |
| Supplement Light Range      | Up to 30 m                                                                                                                                                                                                |
| Smart Supplement Light      | Yes                                                                                                                                                                                                       |
| Video                       |                                                                                                                                                                                                           |
| Main Stream                 | When WDR is On:<br>50 Hz: 12.5 fps (5120 × 1440)<br>60 Hz: 15 fps (5120 × 1440)<br>When WDR is Off:<br>50 Hz: 20 fps (5120 × 1440)<br>60 Hz: 20 fps (5120 × 1440)                                         |
| Sub-Stream                  | When WDR is On:<br>50 Hz: 12.5 fps (1920 × 536, 960 × 272)<br>60 Hz: 15 fps (1920 × 536, 960 × 272)<br>When WDR is Off:<br>50 Hz: 20 fps (1920 × 536, 960 × 272)<br>60 Hz: 20 fps (1920 × 536, 960 × 272) |
| Video Compression           | Main stream: H.265+/H.265/H.264+/H.264<br>Sub-stream: H.265/H.264/MJPEG                                                                                                                                   |
| Video Bit Rate              | 32 Kbps to 16 Mbps                                                                                                                                                                                        |
| H.264 Type                  | Baseline Profile, Main Profile, High Profile                                                                                                                                                              |
| H.265 Type                  | Main Profile                                                                                                                                                                                              |
| Bit Rate Control            | CBR, VBR                                                                                                                                                                                                  |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                  |
| Region of Interest (ROI)    | 1 fixed region(s) for main stream                                                                                                                                                                         |
| Audio                       |                                                                                                                                                                                                           |
| Audio Type                  | Mono sound                                                                                                                                                                                                |

|                             |                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                   |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                                                                                                                                                          |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                                                                                                                                                                                                                        |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                        |
| <b>Network</b>              |                                                                                                                                                                                                                                                                                                                                                            |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP                                                                                                                                                                                                                   |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                                                                                                                                                                                                                           |
| API                         | Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                                                                                                           |
| User/Host                   | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                         |
| Security                    | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address) |
| Network Storage             | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), NVR,<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                                                                                                                                    |
| Client                      | iVMS-4200, Hik-Connect, Hik-Central                                                                                                                                                                                                                                                                                                                        |
| Web Browser                 | Plug-in required live view: IE 10, IE 11 ,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+,<br>Local service: Chrome 57.0+, Firefox 52.0+                                                                                                                                                                                                           |
| <b>Image</b>                |                                                                                                                                                                                                                                                                                                                                                            |
| Image Parameters Switch     | Yes                                                                                                                                                                                                                                                                                                                                                        |
| Image Settings              | saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser                                                                                                                                                                                                                                             |
| Day/Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                                                                                                                                                 |
| Wide Dynamic Range (WDR)    | 130 dB                                                                                                                                                                                                                                                                                                                                                     |
| SNR                         | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                    |
| Image Enhancement           | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                                                                                           |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                                                                                            |
| Ethernet Interface          | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                              |
| On-Board Storage            | Built-in memory card slot, support microSD/microSDHC/microSDXC/TF card, up to 256 GB                                                                                                                                                                                                                                                                       |
| Built-in Microphone         | Yes                                                                                                                                                                                                                                                                                                                                                        |
| Built-in Speaker            | Max. power consumption: 1.2 W, max. sound pressure: 10 cm: 95 dB                                                                                                                                                                                                                                                                                           |
| Audio                       | 1 input (line in), terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium                                                                                               |
| Alarm                       | 1 input, 1 output (max. 24 VDC, 1 A)                                                                                                                                                                                                                                                                                                                       |
| Reset Key                   | Yes                                                                                                                                                                                                                                                                                                                                                        |
| <b>Event</b>                |                                                                                                                                                                                                                                                                                                                                                            |

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), alarm input and output, flashing alarm light output, audible alarm output, exception                                                                                                                                                                       |
| Smart Event                      | Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), scene change detection                                                                                                                                                     |
| Linkage                          | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning, white light flashing                                                                                                                                                                                |
| <b>Deep Learning Function</b>    |                                                                                                                                                                                                                                                                                                                                                       |
| Perimeter Protection             | Line crossing, intrusion, region entrance, region exiting (support alarm triggering by specified target types (human and vehicle))                                                                                                                                                                                                                    |
| <b>General</b>                   |                                                                                                                                                                                                                                                                                                                                                       |
| Power                            | 12 VDC $\pm$ 25%, 0.79 A, max. 9.5 W, $\varnothing$ 5.5 mm coaxial power plug, PoE: 802.3af, Class 3, 36 V to 57 V, 0.29 A to 0.18 A, max. 10.5 W                                                                                                                                                                                                     |
| Material                         | Base: metal, cover: metal                                                                                                                                                                                                                                                                                                                             |
| Dimension                        | $\varnothing$ 155 mm $\times$ 155.3 mm ( $\varnothing$ 6.1" $\times$ 6.1")                                                                                                                                                                                                                                                                            |
| Package Dimension                | 230 mm $\times$ 230 mm $\times$ 230 mm (9" $\times$ 9" $\times$ 9")                                                                                                                                                                                                                                                                                   |
| Weight                           | Approx. 1110 g (2.4 lb.)                                                                                                                                                                                                                                                                                                                              |
| With Package Weight              | Approx. 1900 g (4.2 lb.)                                                                                                                                                                                                                                                                                                                              |
| Storage Conditions               | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                             |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                             |
| Language                         | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| General Function                 | Anti-flicker, heartbeat, password reset via email, password protection, one-key reset                                                                                                                                                                                                                                                                 |
| Flashing Light                   | Yes                                                                                                                                                                                                                                                                                                                                                   |
| <b>Approval</b>                  |                                                                                                                                                                                                                                                                                                                                                       |
| EMC                              | FCC: 47 CFR Part 15, Subpart B,<br>CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014,<br>RCM: AS/NZS CISPR 32: 2015,<br>IC: ICES-003: Issue 7                                                                                                                                                         |
| Safety                           | UL: UL 62368-1,<br>CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017                                                                                                                                                                                                                                                                   |
| Environment                      | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                                                                                                                                                                                                                                                      |
| Protection                       | IP67: IEC 60529-2013                                                                                                                                                                                                                                                                                                                                  |

## ■ Available Model

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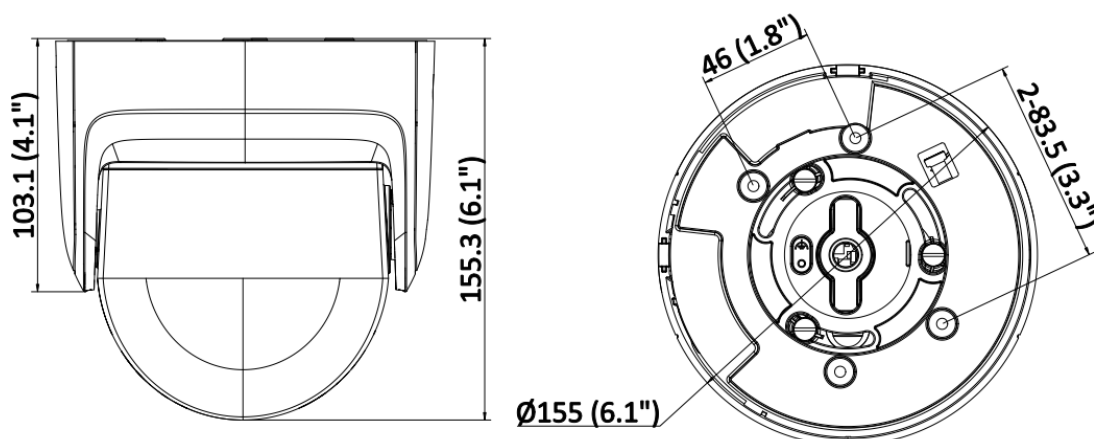
### ■ Typical Application

Products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

| Level                  | Description                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.                                             |
| Moderate protection    | Products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

### ■ Dimension



Unit:mm (inch)

### ■ Accessory

#### ■ Optional

| 1473ZJ-155B<br>Wall Mount                                                           | 1473ZJ-155<br>Wall Mount                                                            | 1471ZJ-155<br>Pendant Mount                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |