

## DS-2DE2C204MWG1-E 2MP 4X Smart Hybrid-light Outdoor Acusense PTZ Camera

Powered by  
**DarkFighter**

Smart **Hybrid Light**



Hikvision DS-2DE2C204MWG1-E 2MP 4 × Smart Hybrid-light Network PTZ Camera adopts 1/3" progressive scan CMOS chip. With the 4 × optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be widely used for wide ranges of high-definition, such as courtyards, villas, apartments, shops, villages, roads, and venues, etc.

Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 2 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Secures an expansive area with 4× optical zoom
- Support Human and Vehicle Detection
- Supports Auto-tracking Lite
- Support two-way audio
- Supports 12V DC & PoE+

## ▪ Specification

| Camera                   |                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor             | 1/2.8" Progressive Scan CMOS                                                                                                                                                 |
| Min. Illumination        | Color: 0.01 Lux @ (F1.8, AGC ON), B/W: 0.005 Lux @ (F1.8, AGC ON), 0 Lux with IR                                                                                             |
| Shutter Speed            | 1 s to 1/30,000 s                                                                                                                                                            |
| Slow Shutter             | Yes                                                                                                                                                                          |
| Day & Night              | ICR                                                                                                                                                                          |
| Zoom                     | 4 × optical                                                                                                                                                                  |
| Max. Resolution          | 1920 × 1080                                                                                                                                                                  |
| Lens                     |                                                                                                                                                                              |
| Focus                    | Auto, manual, semi-auto                                                                                                                                                      |
| Focal Length             | 2.8 to 12 mm                                                                                                                                                                 |
| Zoom Speed               | Approx. 2 s                                                                                                                                                                  |
| FOV                      | Horizontal field of view: 98.3° to 39.4°, vertical field of view: 52.8° to 22.2°, diagonal field of view: 116.5° to 45.2°                                                    |
| Aperture                 | Max. F1.8                                                                                                                                                                    |
| Illuminator              |                                                                                                                                                                              |
| Supplement Light Type    | IR, White Light                                                                                                                                                              |
| Smart Supplement Light   | Yes                                                                                                                                                                          |
| Supplement Light Range   | White light distance: up to 30 m, IR laser distance: up to 30 m                                                                                                              |
| PTZ                      |                                                                                                                                                                              |
| Movement Range (Pan)     | 0° to 355°                                                                                                                                                                   |
| Movement Range (Tilt)    | 0° to 75°                                                                                                                                                                    |
| Pan Speed                | Pan speed: configurable from 4° to 40°/s, preset speed: 40°/s                                                                                                                |
| Tilt Speed               | Tilt speed: configurable from 4° to 20°/s, preset speed 20°/s                                                                                                                |
| Proportional Pan         | Yes                                                                                                                                                                          |
| Presets                  | 300                                                                                                                                                                          |
| Patrol Scan              | 8 patrols, up to 32 presets for each patrol                                                                                                                                  |
| Power-off Memory         | Yes                                                                                                                                                                          |
| Park Action              | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan                                                                              |
| 3D Positioning           | Yes                                                                                                                                                                          |
| PTZ Status Display       | Yes                                                                                                                                                                          |
| Scheduled Task           | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust                                                    |
| Video                    |                                                                                                                                                                              |
| Third Stream             | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| Region of Interest (ROI) | 1 fixed regions for each stream                                                                                                                                              |
| Main Stream              | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)                                                                   |
| Sub-Stream               | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                           |
| Video Compression        | H.265, H.264, MJPEG                                                                                                                                                          |
| Video Bit Rate           | 32 kbps to 16384 kbps                                                                                                                                                        |
| H.264 Type               | Main profile, Baseline profile, High profile                                                                                                                                 |

|                             |                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| H.265 Type                  | Main profile                                                                                                                                              |
| Scalable Video Coding (SVC) | Yes                                                                                                                                                       |
| <b>Audio</b>                |                                                                                                                                                           |
| Audio Compression           | G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC                                                                                                                      |
| Audio Bit Rate              | 32 to 160 Kbps (MP2L2),16 to 64Kbps (AAC-LC)                                                                                                              |
| Audio Sampling Rate         | 8 kHz,16 kHz                                                                                                                                              |
| Environment Noise Filtering | Yes                                                                                                                                                       |
| <b>Network</b>              |                                                                                                                                                           |
| API                         | ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP                                                                                                    |
| Network Storage             | NAS (NFS, SMB/ CIFS), ANR                                                                                                                                 |
| Protocols                   | SSL/TLS,ISUP,WebSocket,WebSockets,IPv4,IPv6,TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv4/IPv6,UDP |
| Simultaneous Live View      | Up to 6 channels                                                                                                                                          |
| User/Host                   | 32                                                                                                                                                        |
| Security                    | 802.1x authenticated access,MAC address binding,Authenticated username and password,IP address filter,HTTPS encryption                                    |
| Client                      | iVMS-4200,Hik-Connect                                                                                                                                     |
| Web Browser                 | Chrome80+, Firefo x 80+, Safari13+, Edge89                                                                                                                |
| <b>Image</b>                |                                                                                                                                                           |
| Image Settings              | Contrast,gain,saturation,sharpness,brightness,white balance,adjustable by client software or web browser                                                  |
| SNR                         | ≥ 52 dB                                                                                                                                                   |
| Defog                       | Digital defog                                                                                                                                             |
| Day/Night Switch            | Day,night,auto,schedule                                                                                                                                   |
| Image Enhancement           | BLC,HLC,3D DNR                                                                                                                                            |
| Privacy Mask                | 24 programmable polygon privacy masks                                                                                                                     |
| Regional Focus              | Yes                                                                                                                                                       |
| Regional Exposure           | Yes                                                                                                                                                       |
| Image Parameters Switch     | Yes                                                                                                                                                       |
| <b>Interface</b>            |                                                                                                                                                           |
| Built-in Microphone         | 1 built-in microphone                                                                                                                                     |
| Built-in Speaker            | 1 built-in speaker                                                                                                                                        |
| Ethernet Interface          | RJ45, self-adaptive 10M/100M Ethernet port                                                                                                                |
| On-board Storage            | Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 512 GB                                                                                       |
| Reset                       | Yes                                                                                                                                                       |
| <b>Event</b>                |                                                                                                                                                           |
| Basic Event                 | Motion detection, video tampering alarm,exception (network disconnected,IP address conflict,illegal login,HDD full,HDD error), audio exception detection  |
| Smart Event                 | Audio exception detection, region entrance detection, region exiting detection, intrusion detection, line crossing detection                              |
| Linkage                     | Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger recording, trigger capture, audible warning,smart tracking                  |
| <b>General</b>              |                                                                                                                                                           |
| General Function            | Mirror,password protection,watermark,IP address filter                                                                                                    |
| Power                       | 12 VDC, max.12W, PoE                                                                                                                                      |

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Operating Condition | -30 °C to 50 °C (-22 °F to 122 °F). Humidity 95% or less (non-condensing) |
| Material            | PC                                                                        |
| Dimension           | 278.6 mm × 204.9 mm × 155.6 mm (10.97" × 8.07" × 6.13")                   |
| Weight              | Approx. 0.67 kg (1.48 lb.)                                                |
| <b>Approval</b>     |                                                                           |
| Protection          | IP66 (IEC 60529-2013)                                                     |

## ▪ DORI

| DORI            | Detect             | Observe           | Recognize         | Identify         |
|-----------------|--------------------|-------------------|-------------------|------------------|
| Distance (Tele) | 179.8 m (589.8 ft) | 71.3 m (234.1 ft) | 36.0 m (118.0 ft) | 18.0 m (59.0 ft) |
| Distance (Wide) | 41.9 m (137.6 ft)  | 16.6 m (54.6 ft)  | 8.4 m (27.5 ft)   | 4.2 m (13.8 ft)  |

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

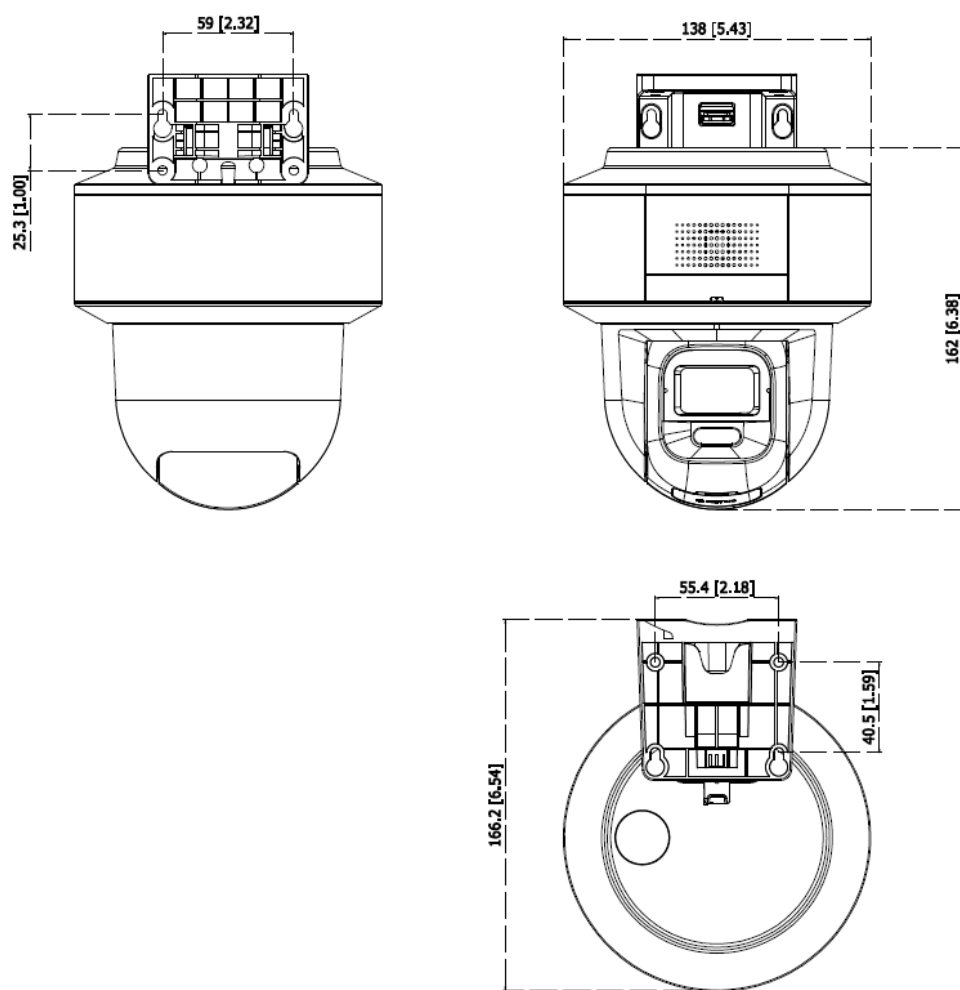
## ▪ Typical Application

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

DS-2DE2C204MWG1-E has NO SPECIFIC PROTECTION.

| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Hikvision 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    | Hikvision 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 | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

## ▪ Dimension



Unit: mm[inch]

# See Far, Go Further



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