

IP-AD12200T-GN-W

2MP Starlight PT Wi-Fi Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Support Triple-streams encoding
- Starlight, WDR
- Max. 25/30fps@1080P
- IVS
- Support Wi-Fi
- IP66



System Overview

Featuring powerful optical zoom and accurate pan/tilt performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080P resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, our Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Environmental

The cameras operate in extreme temperature environments, rated for use in temperatures from -30 °C to +60 °C (-22 °F to +140 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Technical Specification

Camera

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|--------------------------|---|
| Image Sensor | 1/2.8" STARVIS™ CMOS |
| Effective Pixels | 1920(H) x 1080(V), 2 Megapixels |
| RAM/ROM | 512M/128M |
| Electronic Shutter Speed | 1/1s~1/30,000s |
| Scanning System | Progressive |
| Minimum Illumination | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 |
| S/N Ratio | More than 50dB |
| IR Distance | N/A |
| IR On/Off Control | N/A |
| IR LEDs | N/A |

Lens

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|---------------|---|
| Lens Type | Fixed |
| Focal Length | 3.6mm/2.8mm |
| Max. Aperture | F1.6 |
| Angle of View | 3.6mm: H: 80.9°; V: 40.8° 2.8mm: H: 102.9°; V: 54.9° |
| Optical Zoom | N/A |
| Focus Control | Fixed |

DORI Distance

*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

| Lens | Detect | Observe | Recognize | Identify |
|-------|----------------|---------------|---------------|--------------|
| 3.6mm | 54.5m(178.8ft) | 21.8m(71.5ft) | 10.9m(35.8ft) | 5.4m(17.7ft) |
| 2.8mm | 41.4m(135.8ft) | 16.6m(54.5ft) | 8.3m(27.2ft) | 4.1m(13.5ft) |

PTZ

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|----------------------|---|
| Pan/Tilt Range | Pan: 0° ~ 355°; Tilt: 20° ~ 90° |
| Manual Control Speed | Pan: 0.1° ~ 70° /s; Tilt: 0.1° ~ 30° /s |
| Preset Speed | Pan: 80° /s; Tilt: 40° /s |
| Presets | 300 |
| PTZ Mode | 8 Tour, Auto Pan |
| Speed Setup | Human-oriented focal Length/ speed adaptation |
| Power up Action | Auto restore to previous PTZ and lens status after power failure |
| Idle Motion | Activate Preset/Tour if there is no command in the specified period |
| Protocol | DH-SD |

Intelligence

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| Event Trigger | Motion detection, Video tampering, Network disconnection, IP address conflict, Illegal access, Storage anomaly |
| Auto Tracking | N/A |

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| IVS | Tripwire, Intrusion, Abandoned/Missing |
| Advanced Intelligent Functions | Face Detection |

Video

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| Compression | H.265+/H.265/H.264+/H.264 |
| Streaming Capability | 3 Streams |
| Resolution | 1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) |
| Frame Rate | Main stream: 1080P/720P(1 ~ 25/30fps) |
| | Sub stream1: D1/CIF(1 ~ 25/30fps) |
| | Sub stream2: 720P/D1/CIF(1 ~ 25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.265/H.264: 448K ~ 8192Kbps |
| Day/Night | Auto(ICR) / Color / B/W |
| Backlight Compensation | BLC / HLC / WDR (120dB) |
| White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| Gain Control | Auto / Manual |
| Noise Reduction | Ultra DNR (2D/3D) |
| Motion Detection | Support |
| Region of Interest | Support |
| Electronic Image Stabilization (EIS) | N/A |
| Defog | Support |
| Digital Zoom | 16x |
| Flip | 180° |
| Privacy Masking | Up to 24 areas |

Audio

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|-------------|--------------------------|
| Compression | G.711a/G.711mu/G.726/AAC |
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Network

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| Ethernet | RJ-45 (10XBase-T/100Base-TX) |
| Wi-Fi | Wi-Fi(IEEE802.11a/b/g/n/ac) , Dual-Band Wi-Fi |
| Protocol | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x |
| Interoperability | ONVIF Profile S&G, API |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 users |
| Edge Storage | NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | Smart PSS, DSS, DMSS |
| Smart Phone | IOS, Android |

Certifications

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| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1 |
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