

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

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	
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

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

IVSTripwire, Intrusion, Abandoned/MissingAdvanced Intelligent FunctionsFace DetectionVietoIL265/H.264/H.264Streaming CapabilityIL265/H.264/H.264BesolutionStreaming CapabilityID80P(F1200-1080)/720P(1280-720)/ 10704/576/704/480)/CIF(52×288/352×240)Prame RateID80P(F1200-1080)/720P(1280-720)/ 10704/576/704/480)/CIF(52×288/352×240)Frame RateID80P(F1200-1080)/720P(1-25/30fps)Frame RateCBR/VBRBit Rate ControlCBR/VBRBit Rate ControlRL26/H.264/488/~8132KbpsBit RateAuto(CR) / Color / B/WBacklight CompensationBLC / HLC / WDR (120dB)White BalanceAuto, ATW, Indoor, Outdoor, ManualGain ControlAuto / ManualNotse ReductionUItra DNR (2D/3D)Motion DetectionSupportRegion of InterestSupportFigiIS0*Prace MaskingIo 24 areasFigiSupportCompressionCAF(110K)CAF(A/CR), Dual-Band Wi-FIFirbornetIncart / HUTPS, SSI, TCP/IP, UDP, UPP, PSI, SMSP, PRIC, SMSP, RMS, SMS, RMS,			
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Resolution IOSOP(1220x1080)/720P(1280x720)/ D1(704x576/704+480)/CIF(352x288/352x280) Frame Rate Main stream: IOSOP/720P(1 ~ 25/30fps) Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 720P/01/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 (1208) White Balance Auto / ATW, Indoor, Outdoor, Manual Gain Control Auto / Manual Noise Reduction Upport Region of Interest Support Electronic Image Stabilization (EIS) N/A Privacy Masking Up to 24 areas Privacy Masking Quito 24 areas Ferencet Resolution/Signer_TID Vi-Fi Resolution/Signer_TID Vi-Fi Resolution/Signer_TID Vi-Fi Vi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-Fi Wi-Fi Vi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-Fi Vi-Fi Vi-Fi(IEE802.11a/b/g/n/ac), Dual-Band Wi-Fi Vi-Fi Vi-Vi/IV-G, HTTP, HTTPS, SSL, TCP/IP, UDP, UP, PLOCP, DNS, TP, IP, DEOCP, D	Compression	H.265+/H.265/H.264+/H.264	
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AudioCompressionG.711a/G.711mu/G.726/AACCompressionG.711a/G.711mu/G.726/AACNetworkFileEthernetRJ-45 (10XBase-T/100Base-TX)Wi-FiWi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-FiProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G, APIMax. User Access20 usersEdge StorageNAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS50130-4 FCC: Part15 subpartB, ANSI C63.4-2014	Flip	180°	
CompressionG.711a/G.711mu/G.726/AACNetworkEthernetRJ-45 (10XBase-T/100Base-TX)Wi-FiWi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-FiProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, IGMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE, DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4-2014	Privacy Masking	Up to 24 areas	
NetworkEthernetRJ-45 (10XBase-T/100Base-TX)Wi-FiWi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-FiProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, ICMP, IGMP, GMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4-2014	Audio		
EthernetRJ-45 (10XBase-T/100Base-TX)Wi-FiWi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-FiProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, IGMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4-2014	Compression	G.711a/G.711mu/G.726/AAC	
Wi-FiWi-Fi(IEEE802.11a/b/g/n/ac), Dual-Band Wi-FiProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Network		
ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Ethernet	RJ-45 (10XBase-T/100Base-TX)	
ProtocolICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Wi-Fi	Wi-Fi(IEEE802.11a/b/g/n/ac) . Dual-Band Wi-Fi	
Streaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,	
Max. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSSSmart PhoneIOS, AndroidCertificationsCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Interoperability	ONVIF Profile S&G, API	
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 CE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Streaming Method	Unicast / Multicast	
Eoge Storage instant recording, Micro SD card 256GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Max. User Access	20 users	
Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Edge Storage		
Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014	Web Viewer	IE, Chrome, Firefox, Safari	
Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Management Software	Smart PSS, DSS, DMSS	
CE: EN55032/EN55024/EN50130-4 Certifications FCC: Part15 subpartB,ANSI C63.4- 2014	Smart Phone	IOS, Android	
Certifications FCC: Part15 subpartB,ANSI C63.4- 2014	Certifications		
	Certifications	FCC: Part15 subpartB, ANSI C63.4- 2014	