IP Camera System Specifications

Varifocal bullet Network Camera	
Image Sensor	1/2.4" Progressive Scan CMOS
Min. Illumination	Color: 0.008 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.6, AGC ON)
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Focal length	2.8/4/6 mm
Focus	Fixed
Lens	2.8 mm, horizontal FOV: 99°, vertical FOV: 61°, diagonal FOV: 128° 4 mm, horizontal FOV: 80°, vertical FOV: 51°, diagonal FOV: 101° 6 mm, horizontal FOV: 60°, vertical FOV: 38°
Lens Mount	M12
Aperture	F1.6
Day &Night	IR cut filter
DNR	3D DNR
Wide Dynamic Range	120dB
3-Axis Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Video Compression	H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
Max. Resolution	3072 × 2048 60Hz 20fps
Image Enhancement	BLC/3D DNR/HLC
Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Storage	Support micro SD/SDHC/SDXC card (128G) local storage, NAS (NFS,SMB/CIFS), ANR
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
API	ONVIF, ISAPI, SDK
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication, watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Web Browser	Internet Explorer 8, Chrome, Firefox, Safari
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset Button	YES

Smart Features	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection, Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, Email
Web Client Language	English
IR Range	Up to 30 m
Material	Front and Back cover: metal
Protection Level	IP67, IK10

Ultra-Wide Dome Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.028 Lux @ (F2.0, AGC ON) B&W: 0.0028 Lux @ (F2.0, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Lens Type	Fixed lens, 1.68 mm
Lens Mount	M12
Aperture	F2.0
DNR	3D DNR
Wide Dynamic Range	120 dB
Video Compression	Mainstream: H.265+/H.264+/H.265/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
Max. Resolution	2688 × 1520
Image Enhancement	BLC, HLC, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
API	ONVIF, ISAPI, SDK
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication, watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2

Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Web Browser	Internet Explorer 8, Chrome, Firefox, Safari
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset Button	YES
Smart Features	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection, Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, Email
Web Client Language	English
IR Range	Up to 10 m
Protection Level	Weather proof

Fisheye view camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.028 Lux @ (F2.0, AGC ON) B&W: 0.0028 Lux @ (F2.0, AGC ON), 0 Lux with IR
Lens Type	Fixed focal lens, 1.05 mm
Lens Mount	F2.0
Aperture	F2.25
DNR	3D DNR
Wide Dynamic Range	120 dB
Video Compression	Mainstream: H.265+/H.264+/H.265/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
Max. Resolution	2688 × 1520
Image Enhancement	BLC, HLC, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
API	ONVIF, ISAPI, SDK
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication, watermark, IP address filter, basic and

	digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Web Browser	Internet Explorer 8, Chrome, Firefox, Safari
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset Button	YES
Smart Features	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection, Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, Email
Web Client Language	English
IR	yes
Protection Level	IP67, IK10

NVR Specification	
IP Video input	16 channel
Incoming bandwidth	80Mbps
Outgoing bandwidth	160Mbps
Maximum output resolution	HDMI (3840 x 2160, 30Hz), VGA (1920 x 1080 60Hz)
Audio Output	1 channel, RCA
Decoding Format	H.265/H.265+/H.264/H.264+/MPEG4
Maximum Recording Resolution	8MP
Synchronous playback	16 channel
Network Protocols	TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS
Hard Disk Interface	2 SATA Interface
Network Interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
USB interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm in/out	4/1
POE interface	16 x POE RJ-45 10/100 Mbps self-adaptive Ethernet interface

Network Cabinet (Minimum)	
Rack Size	9U
EASY ACCESS	Wall-mount data rack features an enclosed and lockable rack design with easy access to the rear of the mounted devices, small locking server cabinet with reversible and removable front door and removable side panels.
Wall Mountable	Yes
Weight Capacity	199 lbs

24 port manageable poe+ Switch

Specifications	
Ethernet ports	24 x 10/100/1000 (PoE+) + 2 x GE SFP Ports
Capacity	ACL entries: 2048 (minimum) RIP routes: 256 (minimum) Static routes: 256 (minimum)
MAC Address Table Size	16000 entries (minimum)
IEEE 802.1Q VLAN support	256 VLANs with a VLAN ID range of 2-4093
Power Over Ethernet (PoE)	PoE+
PoE budget	400W
Rack-mountable	yes
Size on rack	1 u
Supported protocols	SSH,HTTP,Serial
Web Management	Yes
Input Voltage	220V-240V AC
Locally well known brand	Yes
Authorization from manufacturer	Yes
Warranty	1 years