ONVIF

Functions

Smart (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Protection (IP67, wide voltage)

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.

Environmental

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.

Image Flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

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

Camera	
Image Sensor	1/2.7" 2Megapixel Progresive CMOS
Effective Pixels	1920(H) x1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.08 Lux/F2.0 (Color) 0.04 Lux/F2.0 (Black&White) 0 Lux/F2.0 (Black&White ,IR on)
S/N Ratio	More than 50dB
IR Distance	Distance Up to 30m(98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	18
Pan/Tilt/Rotation Range	Horizontal:0° ~360° ;Vertical:0° ~90° ;Rotation:0° ~360°

Lens					
Lens Type	Fixed-Focal				
Mount Type	Board-in				
Focal Length	3.6 mm				
Max. Aperture	F2.0				
Angle of View	H:92°, V:50°				
Focus Control	Fixed Aperture				
Close Focus Distance	0.9 m				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	53m (174ft)	21m (69ft)	11m (36ft)	5m (16ft)

Video	
Compression	H.265/H.264H/MJPEG(Sub Stream)
Smart Codec	Support H.265+/H.264+
Streaming Capability	2 Streams
Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)
Frame Rate	Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image	Support
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°

Video	
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; TLS
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	NAS, Local PC for Instant Recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	IOS; Android
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (IEEE802.3af)(Class 0)
Power Consumption	< 5.5W
Environmental	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than ≤ 95%RH
Strorage Conditions	-30°C to +60°C (-22°F to +140°F)/Less than ≤ 95%RH
Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal+Plastic
Dimensions	Φ70mm×164.7mm (2.76''x6.49'')
Net Weight	0.38 kg (0.84lb)
Gross Weight	0.44 kg (0.97lb)

Dimensions (mm)