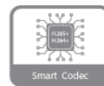


WIPO61SE-S5

2 MP IR Fixed-Focal Eyeball Network Camera



- 2-MP 1/2.8" CMOS image sensor, low illuminance, high image definition.
- Outputs max. 2 MP (1920 × 1080) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in efficient IR illuminator, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, and illegal access.
- 12 VDC/PoE power supply.
- IP67 protection



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, WATASHI Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

Function

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, WATASHI smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Smart Illumination

WATASHI Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts illuminations intensity automatically to display the details of the moving target.

Motion Detection

When moving objects appear in the monitoring image, WATASHI Motion Detection technology triggers alarm or records.

Image Flip

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

WATASHI network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.



WIPO61SE-S5

2 MP IR Fixed-Focal Eyeball Network Camera

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.01 lux@F2.0 (Color,30 IRE) 0.001 lux@F2.0 (B/W,30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft) (IR)
Illuminator On/Off Control	Auto; manual
Illuminator Number	12 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal				
Lens Mount	M12				
Focal Length	2.8 mm; 3.6 mm				
Max. Aperture	2.8 mm: F2.0 3.6 mm: F2.0				
Field of View	2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120° 3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100°				
Iris Control	Fixed				
Close Focus Distance	2.8 mm: 0.5 m (1.6 ft) 3.6 mm: 0.8 m (2.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5.0 m (16.4 ft)

Video

Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 1920 × 1080@1–25/30 fps Sub stream: 704 × 576@1–25 fps 704 × 480@1–30 fps *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream 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)
Bit Rate Control	CBR/VBR

Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Manual; auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception
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Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; Trusted boot; Trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF(Profile S); CGI; P2P
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP
Browser	IE; Chrome; Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.4 W (12 VDC); 2.2 W (PoE) Max. (ICR + H.265+IR intensity): 3.3 W (12 VDC); 4.3 W (PoE)

Environment

Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
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WIPO61SE-S5

2 MP IR Fixed-Focal Eyeball Network Camera

Technical Specification

Operating Humidity	≤ 95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67
Structure	
Casing	Inner core: Metal Cover: Plastic Decoration ring: Plastic Pedestal: plastic
Product Dimensions	84.9 mm × Φ108 mm (3.3" × Φ4.3")
Net Weight	0.22 kg (0.5 lb)
Gross Weight	0.34 kg (0.7 lb)

Series Overview

