

UN-BF2231

2MP Lite IR Fixed-focal Bullet Network Camera



- · 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1980 × 1080) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 80 m
- · Rol, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- · Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, local alarm, voltage detection, audio detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/PoE power supply
- · IP67 protection, IK10 protection (optional)



Featuresand Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, United 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.

WDR

With advanced Wide Dynamic Range (WDR) technology, United network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

United Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

VS

With advanced video algorithm, United IVS technology supports intelligent functions, such as tripwire and intrusion.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical Sn	ecification	าท						
Technical Specification			Resoluti	ion	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF			
Camera		1/2 0" 2Maganiyal progressiya CMOS						(352 × 288/352 × 240)
Image Sensor		1/2.8" 2Megapixel progressive CMOS				Bit Rate	Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)				Video B	it Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
ROM		128 MB				Day/Nig	ht	Auto(ICR)/Color/B/W
RAM		128 MB				BLC		Yes
Scanning System		Progressive			HLC		Yes	
Electronic Shutier Speed		Auto/Manual 1/3 s=1/100,000 s				WDR		120 dB
S/N Ratio		> 56 dB						Auto/natural/street lamp/outdoor/manual/regional
Min. Illumination	n	0.002 Lux@F1.6				White B	alance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Dist	ance	80 m (262.5 🛭	3)			Gain Co	ntrol	Auto/Manual
Illuminator On/C	Off Control	Auto/Manual				Noise R	eduction	3D DNR
Illuminator Num	ber	4 (IR LED)				Motion	Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Pan: 0°–360° Tilt: 0°–90°				Region	of Interest(RoI)	Yes (4 areas)
Lens		Rotation: 0°–360°			Smart II	lumination	Yes	
Lens Type		Fixed-focal				Image R	otation	0°/90°/180°/270° (Supports 90°/270° with 1920 × 1080 resolution and lower)
Mount Type		M12				Mirror		· ·
Focal Length		3.6 mm; 6 mm; 8 mm					Yes	
Max. Aperture		3.6 mm: F1.6 6 mm: F1.6 8 mm: F1.6				Audio	Privacy Masking 4 areas Audio	
		3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104°			-	Audio C	ompression	G.711a; G.711Mu; G.726; AAC
Field of View		6 mm: Horizontal 54° × Vertical 29° × Diagonal 63° 8 mm: Horizontal 41° × Vertical 22° × Diagonal 47°				Alarm		
Iris Type		Fixed						No SD card; SD card full; SD card error; network
Close Focus Distance		3.6 mm: 1.2 m (3.9) 6 mm: 2.5 m (8.2) 8 mm: 4 m (13.1)				Alarm E	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm
	Lens	Detect	Observe	Recognize	Identify	Netwo	ork	
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	Networ		RJ-45 (10/100 Base-T)
DORI Distance	6 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.4 ft)	8.3 m (27.2 ft)	SDK and		Yes
	8 mm	110.3m	44.1 m	22.1 m	11.0 m	35K dile		
Smart Event		(361.9 ft)	(144.7 ft)	(72.5 ft)	(36.1 ft)	Protoco	I	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x;
Smart Event								Bonjour
Video		Tripwire; intrusion				Interope	erability	CGI; Milestone; Genetec; P2P
Video Compression		H.265; H.264; H.264B; MJPEG (only supported				User/Ho	ost	20
Smart Codec		by sub stream) Smart H.265+/ Smart H.264+				Storage		Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate		Main stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream:				Browse	r	IE Chrome Firefox
		704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)				Manage	ment Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				Mobile	Phone	IOS; Android



Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

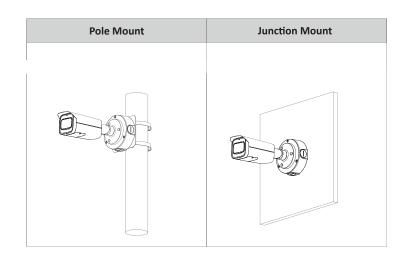
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.8W

Environment

Operating Conditions	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10(optional)

Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.91 kg (2.0 lb)
Gross Weight	1.16 kg (2.6 lb)



Dimensions (mm/inch)

