## United CCTV SYSTEM

# **UN-DF2431**

4MP Lite IR Fixed-focal Dome Network Camera



- $\cdot$  4MP, 1/3" CMOS image sensor, low illuminance, high image definition  $\cdot$  Outputs 4MP (2560  $\times$  1440)@25/30 fps, max. supports 4MP (2688  $\times$  1520) @ 20 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 m
- $\cdot$  ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D NR, 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- · 12V DC/PoE power supply
- $\cdot$  IP67, IK10 protection



### **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.

#### IVS

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

#### **Cyber Security**

United network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, United network camera better meets the demands of cyber security and privacy protection.

#### 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.



### Product Model I UN-DF2431



#### **Technical Specification**

Camera	

Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Max. Resolu on		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shu er Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumina on		0.008 Lux @ F1.6			
S/N Ra o		>56 dB			
Illumina on Distance		30 m (98.43 )			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR LED)			
Pan/Tilt/Rota on Range		Pan: 0°–355° Tilt: 0°–65° Rota on: 0°–355°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal 102.0° × Ver cal 55.0° × Diagonal 121.0° 3.6 mm: Horizontal 84.0° × Ver cal 45.0° × Diagonal 100.0°			
Iris Type	ris Type Fixed				
Close Focus Dista	Focus Distance     2.8 mm: 0.9 m (2.95 )     )       3.6 mm: 1.6 m (5.25 )     )				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (19.37 ft)
	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			

Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps)

Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)

2 streams

Smart H.265+/ Smart H.264+

Smart Codec

Video Frame Rate

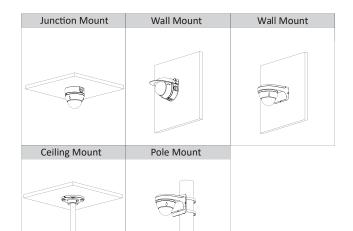
Stream Capability

480; YGA (640 ×480;), CIF (352 × 288/352 × 240)Bit Rate ControlCBR/VBRIvideo Bit RateH.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesHLCYesWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/NanualNoise Reduc onSPF/ON (4 areas, rectangular)Mo on Detec onOF/F/ON (4 areas)Marting RotaO'/S07/180'/270' (Supports 90'/270' with 2688 × 1520) resolu on and lower.)MirorYesArarneO'/S07/180'/270' (Supports 90'/270' with 2688 × 1520) resolu on and lower.)MirorYesAlarne EventNo SD card; SD card full; SD card error; network disconnection; Pi conflict; motion detection; video tamperin; trivinger; intrusing lifegal access; yoilagesNetworkSPASystem SecurityYesStand APIYesStand APIYesProtocolIfwer, Phice; HTTP; CD; UDP; ARP; RTP; ATSP; RTCP; RTFM; SD; STCD, DHP; ARP; Phice; HTTP; SD; SD, SD SDJuteroperabilityCici; P2P; Milestone; eccurity logg; IP/MAC filtering; generation and importing of X.509 ecritication in yoils; HTTP; SS SD; DHS; Account lockout; security logg; IP/MAC filtering; generation and importing of X.509 ecritication in yoils; HTTP; SS SD; DHS; Account lockout; security logg; IP/MAC filtering; generation and importing of X.509 ecritication in yoils; HTTP; SS Account lockout; security logg; IP/MAC filtering; generation and importing of X.509 ecritication in yoils; HTTP; SS Account lockout; security logg; 	Resolu on	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Video Bit RateJ. 264: 32 kbps-6144 kbpsVideo Bit RateH. 264: 32 kbps-6144 kbpsDay/NightAuto(ICR)/Color/B/WBLCVesHLCVesVDR120 dBWhite BalanceAuto/Antural/Street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise Reduc onOF/ON (4 areas, rectangular)Mige Rota onOF/ON (4 areas)Smart Illumina onYesImage Rota onOr/90'/180'/270' (Supports 90'/270' with 2688 x1520)MirorYesAlarm EventNo SD card; SD card full; SD card error; network disconnection; Pie Conflict; motion detection; video tampering: triving: intrusing: lilegal access; yoilageNetworkNes SD card; SD card full; SD card error; network disconnection; Pie Conflict; motion detection; video tampering: triving: intrusing: lilegal access; yoilageNetworkNes SD card; SD card full; SD card error; network disconnection; Pie Conflict; motion detection; video 		480); VGA (640 ×480); CIF (352 × 288/352 × 240)
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Storage FTP; Micro SD card (support max. 256 G); NAS; SFTP   Browser IE Chrome Firefox   Management So ware Smart PSS; DSS; DMSS	Interoperability	
Browser IE Chrome Firefox   Management So ware Smart PSS; DSS; DMSS	User/Host	20
Browser Chrome Firefox   Management So ware Smart PSS; DSS; DMSS	Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
-	Browser	Chrome
Mobile Phone IOS; Android	Management So ware	Smart PSS; DSS; DMSS
	Mobile Phone	IOS; Android

### Product Model I UN-DF2431

Cer fica on

Cer fica ons	CE-LVD: EN62368-1 CE-EMC: Electromagne c Compa bility Direc ve 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consump on	< 5.2W
Environment	
Opera ng Condi ons	-40°C to +60°C (-40°F to +140°F)/less than $\leq$ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protec on	IP67; IK10
Structure	
Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.491 kg (1.08 lb)



**Inited** 

### **Dimensions (mm/inch)**

