FD2521-FS

5MP Lite IR Fixed-focal Eyeball Network Camera

PADMAX



- 5MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- Outputs max. 5MP (2592 \times 1944)@20 fps, and supports 2688 \times 1520 (2688 \times 1520)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 m
- 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 disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card, built-in Mic
- 12 V DC/PoE power supply
- IP67 protection













Series Overview

With upgraded H.265 encoding technology, Padmax Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Padmax 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, Padmax 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

With advanced image processing technology and optical technology, Padmax Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

IVS

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

Cyber Security

Padmax 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.

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 works normal 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.

	Technical Specification						2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 ×
Camera					Resolution	1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280	
Image Sensor		1/2.7" CMOS					× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2592 (H) × 1944 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192kbps
RAM		256 MB				Day/Night	Auto (ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				HLC	Yes
Min. Illumination		0.008 Lux@F1.6				WDR	120 dB
S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Distance		30 m (98.43 ft)				Gain Control	Auto/Manual
Illuminator On/Off Control		Auto/Manual				Noise Reduction	3D NR
Illuminator Number		2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				Region of Interest(RoI)	Yes (4 areas)
		Rotation: 0°–360°				Smart Illumination	Yes
Lens						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Lens Type		Fixed				Mirror	Yes
Mount Type		M12 2.8 mm				Privacy Masking	4 areas
Focal Length		3.6 mm				Audio	
Max. Aperture		F1.6 F1.6				Built-in MIC	Yes
Field of View		2.8 mm: Horizontal 103.0° × Vertical 71.0° × Diagonal 132.0°				Audio Compression	G.711A; G.711Mu; G.726
		3.6 mm: Horizontal 84.0° × Vertical 58.0° × Diagonal 110.0°				Alarm	
Iris Type		Fixed				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)					
	Lens	Detect	Observe	Recognize	Identify	Network	
DORI		56 m	22.4 m	11.2 m	5.6 m	Network	RJ-45 (10/100 Base-T)
Distance	2.8 mm	(183.73 ft)	(73.49 ft)	(36.75 ft)	(18.37 ft)	SDK and API	Yes
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security
Smart event						Cyber Security	logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
General IVS Ana	alytics	Tripwire; inti	rusion				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video Compression		H.265; H.264; H.264B; MJPEG				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		Yes				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P;
Video Frame Rate		Main stream: 2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				User/Host	Milestone; Genetec
						Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
						Browser	IE Chrome
Stream Capabili	Stream Capability					Di Owijer	Firefox

Dimensions

Net Weight

Gross Weight

Management Software	Smart PSS; EasyViewer pro	
Mobile Phone	IOS; Android	
Certification		
Certifications	CE-LVD: EN62368-1 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	
Power		
Power Supply	12 V DC/PoE (802.3af)	
Power Consumption	< 7.2 W	
Environment		
Operating Conditions	-40 °C to +60 °C (-40 °F to +140 °F)/less than ≤ 95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67	
Structure		
Casing	Metal	

99.1 mm × Φ 121.9 mm (3.9" × Φ 4.8")

0.48 kg (1.1 lb)

0.65 kg (1.4 lb)

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

Dimensions (mm[inch])

