VTU-IPCDMV4FC-BD

4MP IR Vari-focal Dome Smart AI Network Camera



DMV4FC-BD is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets.

Functions

SMD Plus

With intelligent algorithm, Viziontech Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Viziontech 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.

Perimeter Protection

With deep learning algorithm, Viziontech Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps and supports 2560 × 1440 (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only -ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, Viziontech 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.

Cyber Security

Viziontech 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, 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 work normally 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Smart H.265+

Smart H.264+

Smart Codec



								Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@
Technical Specification								(1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Camera							Video Frame Rate	fps) *The values above are the max. frame rates of each
Image Sensor		1/2.9" CMOS						stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Resolution 2688 (H) × 1520 (V)			Stream Capability	2 streams				
ROM 128 MB				2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×				
RAM		128 MB					Resolution	1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Scanning System		Progressive						× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps- 6144 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination	Distance						BLC	Yes
	On/Off Control	40 m (131.23 ft) (IR LED)					HLC	Yes
		Auto; Manual					WDR	120 dB
Illuminator Number		2 (IR LED) Pan: 0°–355°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rotation Range		Tilt: 0°-75° Rotation: 0°-355°					Gain Control	Manual;Auto
Lens							Noise Reduction	3D NR
Lens Type		Motorized vari-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		ф14					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.7 mm-13.5 mm					Smart Illumination	Yes
Max. Aperture		F1.5 H: 104°-29°;					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 2688×1520 resolution and lower)
Field of View		V: 54°–16°; D: 125°–34°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus I	Distance	0.8 m (2.62 ft)					Audio	
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes
	W	64.0 m	25.6 m	12.8 m	6.4 m		Audio Compression	G.711a; G.711Mu; G.726; PCM
		(209.97 ft)	(83.99 ft)	(41.99 ft)	(20.99 ft)		Alarm	
DORI	Т	210.0 m (688.97 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)			No SD card; SD card full; SD card error; network
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.						Alarm Event detection; vi detection; vi external alar	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
For intelligent function distances, refer to installation and commissioning manual/project design tool.				Network	Choop don't			
Intelligence			Network Port	RJ-45 (10/100 Base-T)				
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP;P2P
Video		event videos					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
		H.265; H.264; H.264H; H.264B; MJPEG (Only					User/Host	6 (Total bandwidth: 36 M)
Video Compression		supported by the sub stream)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)



Browser	IE Chrome Firefox
Management Software	VTU-VMS
Mobile Client	iOS; Android
Cyber Security	Video encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade

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	12 VDC/PoE (802.3af)
Power Consumption	-Basic: 2.3 W (12 VDC); 3.2 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 6.5 W (12 VDC); 7.7 W (PoE)

Environment

Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40°F to +140°F)
Protection	IP67; IK10

Structure

Casing Material	Metal
Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")
Net Weight	-0.52 kg(1.15 lb)
Gross Weight	-0.68 kg(1.50 lb)

Accessories

Optional:







Junction Box Wall Mount Bracket Mount Adapter



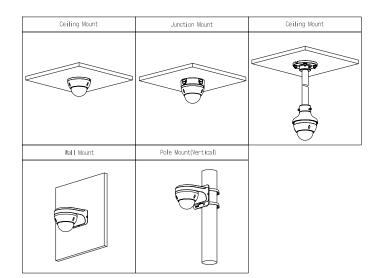




Ceiling Mount Bracket

Pole Mount Bracket

12 VDC 1A Power Adapter



Dimensions (mm[inch])

