MINOLTA®

FB02-EMR-212

2MP Bullet Camera, Motorized 2.7-12mm
IP66, IK10, PoE, NDAA

DNN Edge Analytic Engine

The latest computer vision technology makes DNN accelerated video processing engine efficient at the edge. This engine provides high accuracy, real-time object tracking and human face detection. Moreover, it allows simultaneous detection on multiple objects.

IK 10

This rugged bullet camera is protected against punishing weather, vandals, vibration and shock. Its durability translates into better reliability and usability by reducing maintenance time.

Features

- Progressive scan CMOS image sensor support up to
- 8M Resolution
- Multi Exposure HDR
- Multi Codec support (H.265/ H.264/ MJPEG)
- Quad Streams support
- True Day/Night function (ICR)
- IR LED (working distance up to 40m)
- 3D Motion Compensated Noise Reduction (MCTF)
- Micro SD/ SDHC/ SDXC Card support
- ONVIF Profile S/ G/ T/ M support
- Deep Neural Network Accelerated Engine
- Face/LPR Detection and Recognition
- Object Classification and Recognition
- People Detection and Tracking
- Smart Event function
- External Input/ Motion Detection
- Network Failure Detection/ Tampering Alarm
- Periodical Event/ Manual Trigger/ Audio Detection
- Vandal Proof (IK10 Rating)
- Weatherproof (IP66)*
- NDAA Compliant

*Optional

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Custom Specification (Default)

Sony 4K

Image Sensor	Sony 4K 1/1.8" Progressive CMOS
Effective Pixels	HxV = 3864x2180(4K)
Pixel Size	2.0 µm
Frame Rate (Maximum)	H.265 HDR 4K @30fps + 2M @30fps
	H.264 HDR 4K @30fps + 2M @30fps
	MJPEG 1080p @30fps

Lens

Minimum Illumination	Color	0.04 lux
	B/W	0.002 lux
Lens	Type	Motorized Lens, P-Iris, F1.5
	Focal Length	3.6-11mm
	Horizontal FOV	115.0° (wide), 47.5° (tele)
	Vertical FOV	61.2° (wide), 27.0° (tele)

Common Specification

Camera

Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes
Zoom	Optical zoom, digital zoom 10x
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Image Rotation	90°, 180°, 270° rotation

Video Codec

Compression	H.265/H.264/MJPEG
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264

Audio Codec

Compression	G.711 / G.726 / AAC / LPCM
Streaming	2 way
Audio Input	Line in
Audio Output	Line out

Network

Interface	1Gbps Ethernet
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS
ONVIF	Profile S / G / T /M conformant

System Integration

Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External output Activation Video and audio recording to edge storage File Upload : FTP, network share and email Notification : HTTP, FTP, email

Intelligent Video Analytics

General Analytics	Motion Detection/Tampering/Audio detection
DNN Analytics	Face Detection/Tracking/Recognition LPR Detection/Recognition People Counting Human/Vehicle Classification Object Classification/Recognition

General

Casing	Metal and Plastic
Power	PoE IEEE802.3af, class 0, max 12.95 watt DC12V, 15.59 watt AC24V, max 13.31 watt, max 25.08 VA
Connectors	RJ45
	Alarm in x2, Alarm out x1, Terminal Block
	DC12V Terminal Block
	AC 24V Terminal Block
	Audio in 3.5mm Jack
	Audio out 3.5mm Jack
IR Illumination	Illumination distance: 40m
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS
Operating Conditions	-30°C~55°C without heater -55°C~55°C with heater 10%~90%, No Condensation
Storage Conditions	-20°C~70°C
Approvals	EMC CE / FCC Environment IP66, IK10
Dimensions	Ø105x234 mm
Weight	1280 g

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Custom Specification

Sony 4K		
Image Sensor	Sony 4K 1/1.8" Progressive CMOS	
Effective Pixels	HxV= 3864x2180 (4K)	
Pixel Size	2.0 µm	
Frame Rate (Maximum)	H.265 HDR 4K @30fps + 2M @30fps	
	H.264 HDR 4K @30fps + 2M @30fps	
	MJPEG 1080p @30fps	
Lens		
Minimum Illumination	Color	0.04 lux
	B/W	0.002 lux
Lens	Type	Motorized Lens, P-Iris, F1.5
	Focal Length	3.6-11mm
	Horizontal FOV	115.0° (wide), 47.5° (tele)
	Vertical FOV	61.2° (wide), 27.0° (tele)

OmniVision 4K		
Image Sensor	OmniVision 4K 1/1.8" Progressive CMOS	
Effective Pixels	HxV = 3872x2192 (4K)	
Pixel Size	2.0 µm	
Frame Rate (Maximum)	H.265 HDR 4K @30fps + 2M @30fps	
	H.264 HDR 4K @30fps + 2M @30fps	
	MJPEG 1080p @30fps	
Lens		
Minimum Illumination	Color	0.1 lux
	B/W	0.01 lux
Lens	Type	Motorized Lens, P-Iris, F1.5
	Focal Length	3.6-11mm
	Horizontal FOV	110.4° (wide), 47.3° (tele)
	Vertical FOV	59.5° (wide), 26.7° (tele)

Sony 2M		
Image Sensor	Sony 2M 1/2.8" Progressive CMOS	
Effective Pixels	HxV = 1945x1097 (2M)	
Pixel Size	2.9 µm	
Frame Rate (Maximum)	H.265 HDR 1080p @30fps + 1080p @30fps	
	H.264 HDR 1080p @30fps + 1080p @30fps	
	MJPEG 1080p @30fps	
Lens		
Minimum Illumination	Color	0.02 lux
	B/W	0.001 lux
Lens	Type	Motorized Lens, P-Iris, F1.6
	Focal Length	2.7-12mm
	Horizontal FOV	106.3° (wide), 33.0° (tele)
	Vertical FOV	58.3° (wide), 18.6° (tele)