

FW7940-FEM

2MP Motorized AF Bullet

FW7940-FEM is a high-quality Bullet IP camera which is equipped with 8.4MP Progressive Scan CMOS image Sensor. With the highest sensitivity sensor, it is especially superior in low light condition. As it supports simultaneous H.265, H.264, M-JPEG Video Compression, less network bandwidth and storage space required. It also delivers high quality video image at 60fps@2M in progressive mode.

Key Features

- Backdoor Issue free - Non Hi-Silicon
- 1.2Tops NPU AI
- Native support for deep learning AI features
- Sony Starvis 1/2.8" 2.13MP Image sensor
- 2.7~13.5mm Motorized AF Lens
- Max. 60fps@2MP
- Quadruple Streaming H.265, H.264, M-JPEG, JPEG
- Various Back light mode of WDR, BLC, HLC
- D-WDR, Defog
- IP filtering & Management White List
- ONVIF Profile S
- Multi Browser support - Chrome, Edge, I.E



Tech Notes

Native support for deep learning AI features

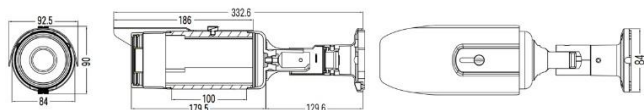
Object Detection, Face Detection, Intrusion Detection, Line Crossing, Object Counting, Object Tracking, Tampering, General Detection, Abnormal Detection are provided.

Multi Browser Support

It supports multi-browsers like Chrome, Edge.

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Technical Specifications



Camera	
Image Sensor	1/2.8" 2.13MP Sony Starvis PS CMOS
Lens	2.7~13.5mm Motorized AF Lens
P-IRIS (Option)	Support
Day & Night	True Day & Night
Min. Illumination	Color : 0.05 lux B/W : 0.0005 lux / 0 lux (IR On)
IR Illumination	50m, 42 ea. 850nm IR LED
Video Stream	
System	64bit RISC-V Quad Core up to 594MHz, NOR Flash 512 Mb / LPDDR3 4Gb
Compression	H.265, H.264, M-JPEG, JPEG
Video Stream	Quadruple Streaming
Resolution	1920x1080, 1280x1024, 1280x720, 704x480, 640x480, 320x240
Max. Frame rate	60fps, 50fps@2M
Bit Rate Control	CVBR, CBR, VBR
Video Setting	
Lens type	ELC (Normal/Deblur) ALC (Indoor/Outdoor/Deblur)
Auto Exposure Weight	0 ~ 255
Shutter Mode	Auto / Manual / Flicker
Electronic Shutter	Minimum/ Maximum, 1/30~1/30,000s
Sens Up	Off / x2 / x4 / x8 / x16 / x32
AGC	0 ~ 255
Back Light Mode	Off / HLC / BLC / WDR (> 120dB)
Day-Night Mode	Off / Color / B&W / External
IR LED	Disable / Enable
White Balance	Auto / Preset / Manual
Digital Noise Reduction	2 DNR, 3 DNR
Image Adjustment	Sharpness, Gamma, Mirror, Flip, Contrast
D-WDR	Off / Low / Middle / High
Defog	Off / Low / Middle / High
Color Mode	Default / Vivid
Text OSD	9 lines, settable size, color, position, etc.
Smart Video	ROI (Region of Interest) 8 areas
Privacy Masking	8 Areas
Analytics	
Motion Detection	4 areas
Object Detection	Deep learning based AI Person, Bicycle, Motorcycle, Car, Truck, Bus, Face Detection
Video Analytic	Intrusion Detection, Line Crossing, Object Counting, Object Tracking, Tampering, General Detection, Abnormal Detection
Network	
Security	IP Filtering, HTTPS, Encrypted & Basic Authentication, Management White List
Supported Protocols	HTTP, RTP/RTSP (Uni/Multicast), TCP/IP (v4/v6), UDP, FTP, Telnet, HTTPS, RARP, SNMP (option), DHCP, NTP, SMTP client, uPnP, ZeroConf
DDNS	www.ipcctvdns.com
Interface	RJ45 Ethernet 10/100Mbps
Cybersecurity	
Asymmetric Encryption Algorithm	Key Length RSA 2048 bits
Digital Signature Algorithm	Key Length RSA 2048 bits
Symmetric Encryption Algorithm	AES Key Length 128 bit
Cryptographic Hash Functions	SHA-256
Token Authentication Code	HMAC-SHA-256
Key Exchange Protocols	RSA Key Exchange
Certificate	X.509
System Integration	
Application Programming Interface	SDK, ONVIF Profile S
Event Condition	Motion detection, audio detection, external digital input, external input data, SD card error
Event Action	Pre-alarm & Post-alarm buffer Image upload: FTP (periodic, buffer) Notification: email, HTTP, TCP, UDP External digital output
Edge AI	Supported

Peripheral & Auxiliary I/O	
Onboard Recording	MicroSD card slot, support up to 1TB
Audio	Line in, line out Audio compression: G.711-ulaw, Sampling rate 8KHz, 16bit, Mono Audio streaming: 2-way
External alarm	1 digital input, 1 digital output (NO/NC)
Serial interface	1 RS485
Video out	CVBS (SD analog)
Software	
Web Browser	IE, Chrome, Edge, Firefox, Safari
Mobile Viewer	iOS, Android
CMS	Smart Multi Viewer and Player
NVR	SmartNVR (up to 9 channels free license)
Device manager	IP Installer
General	
Case/ Color	Metal/ Grey
Power Supply	DC12V / 3A PoE : IEEE 802.3at
Power Consumption	AI OFF, IR ON : Max. 7.0W / AI ON, IR ON : Max. 8.0W
Operating Environment	-20°C ~ +60°C, 10% ~ 90% RH
Dimension	84φ x 332.6(L) x 90(H) mm
Weight	Approx. 820g
Protection	IP66
Warranty	2-year warranty
Certifications	KC, CE, FCC, RoHS
Included Accessories	Sunshield, waterproof RJ45 connector cap, hexagon key L-wrench

Note : AI capabilities may not perform perfectly all the time because their performance can be affected by the environment and the content they are trained on.