

IP / Professional IP cameras

SF-IPDM937ZAWH-8

Smart detection IP Camera

Smart Detection ULTRA Series

This range combines high image quality and resolution sensors with powerful advanced features for a highly flexible solution. Intelligent VCA detection with line/area and object crossover. 120dB wide dynamic range (WDR) to overcome adverse lighting situations. Microphone or AUDIO inputs/outputs together with relay output to extend versatility of use. SUPERPOE power supply achieves long cabling range (300m) in industrial or rural installations. Convenient integrated junction box (*depending on model).

- 4K Resolution
- 1/2.5" High Performance CMOS Sensor
- 2.8~12 mm Varifocal Motorized Lens Autofocus
- H.265+ High Efficiency Video Codec
- Built-in AUDIO / Relay output
- Long distance Power Over Ethernet SUPERPOE
- Advanced Smart detection rules (VCA)
- IP66 and IK10 protection



Technical Specification

Image Sensor	1/2.5" Progressive Scan CMOS
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Wide Dynamic Range	120dB
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
DNR	3D DNR
Lens	2.8 to 12 mm
Auto-Iris	No
Aperture	F1.6
Focus	Auto
FOV	Horizontal field of view: 105° to 34.5°, Vertical field of view: 55° to 19°, Diagonal field of view: 125° to 40°
Lens Mount	□14
Lens Type	Motorized
IR Range	Up to 30 m
Wavelength	850nm
Audio compression	G722.1/G.711/G726/MP2L2/PCM/MP3
Max. Resolution	3840 × 2160
Main Stream	50Hz: 12.5 fps (3840 × 2160), 20fps (3072 × 1728), 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720), 60Hz: 15 fps (3840 × 2160), 20fps (3072 × 1728), 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240), 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Third Stream	50Hz: 25fps (1280 × 720, 640 × 360, 352 × 288), 60Hz: 30fps (1280 × 720, 640 × 360, 352 × 240)
Video Compression	Main stream: H.265/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264
H.264 Type	Main Profile/High Profile
H.265 Type	Main Profile
Video Bit Rate	32 Kbps to 16 Mbps
SVC	H.264 and H.265 encoding support
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)

Environment Noise Filtering	Yes
Audio Sampling Rate	8kHz/16kHz/32kHz/44.1kHz/48kHz
Smart Event	Line crossing detection, intrusion detection, face detection
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Face Detection	Yes
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Reset	Yes
Startup and Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)
Image Enhancement	BLC/3D DNR/HLC
Image Setting	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS/SMB/CIFS), ANR
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users, 3 levels: Administrator, Operator and User
Client	Safire Control Center, Safire Connect, Safire Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local Service: Chrome 41.0+, Firefox 30.0+
Alarm Trigger	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error
Firmware Version	5.6.3
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Audio	1 input (line in, 3.5 mm), 1 output (line out, 3.5 mm), mono sound
Alarm	1 input, 1 output (max. 12 VDC, 30 mA), terminal block

Video Output	1Vp-p composite output (75 Ω) (For adjustment only)
On-board Storage	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
H.264+	Main stream supports
H.265+	Main stream supports
Power Supply	12 VDC \pm 25%, Ω 5.5 mm coaxial power plug, PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.8A, max. 10W, PoE (802.3af, 36V to 57V), 0.4A to 0.2A, max. 12W
Dimensions / Weight	Ω 153.4 \times 133.1 mm (Ω 6" \times 5.2") 1287 g (2.8 lb.)
Material	Metal
Impact Protection	IK10
Interface Protection	IP66