

CCTV IP / Professional IP cameras

SF-IPSD8037ITA-4X1-L800

6-inch IP Speed Dome Camera

Speed dome Series

High speed motorized dome cameras. Reliability and resistance with a guarantee of successful installation. Long-range lenses with wide zoom, improved image stabilization and wide-coverage IR scopes. The image obtained is sharp and defined, even in adverse lighting situations, thanks to its excellent Ultra Low Light sensor and its wide dynamic range (WDR) of 120 dB.

- 4 Megapixels Resolution
- 1/1.8" Progressive Scan CMOS
- IR Laser 800m
- H.265+ High Efficiency Video Codec
- Autotracking, human/vehicle | Alarms
- IP67 | IK10 | PoE++



Technical Specification

Camera Module	
Image Sensor	1/1.8" progressive scan CMOS
Max. Resolution	2560×1440
Min. Illumination	Color 0.0005 Lux @ (F1.2, AGC ON) B/W 0.0001 Lux @ (F1.2, AGC ON). 0Lux with IR
Shutter Speed	VL80:50Hz 1/25s-1/25,000s, 60Hz: 1/30s-1/30,000s
White Balance	auto;ATW;sodium lamp;indoor;fluorescent lamp;outdoor;MWB;Locked WB;Locked WB
3D DNR	yes
SNR	≥52dB
Day & Night control	Auto Mode, Manual Mode, Scheduled-switch, Timer.
Focus control	
Iris control	Auto/Manual
Noise Reduction	2D/3D DNR, Auto/Manual
AE Enhancement	BLC, HLC, HDR
Digital Zoom	16X
Privacy Mask	4 areas per scene
Picture overlay	Logo picture could be overlaid on video, 16x16,24x24,32x32,48x48,64x64,96x96,128x128pixels
OSD overlay	Max 15 characters/line, 8 lines, white or red font color, text such as week, date, time
Optical Defog	Built-in optical defog filter
Lens	
Focus length	f= 6 ~ 222mm lens,37x optical zoom±5%
Zoom Speed	Approx. 5.2s (optical zoom, wide-tele) ±5%
FOV	Horizontal:59° to 1.98° Vertical: 34.14° to 1.12° Diagonal: 67.08° to 2.27°. (wide-tele) ±5%
Image distance	wide: 1.0m ~ INF; tele: 1.5m ~ INF
Aperture type	F1.2~F4.6(wide-tele), P-IRIS, 6 slices Diaphragm, support auto/manual
IR Cut Type	Removable IR Cut filter, absorbing type to anti flare and smear by Sun and headlamps of vehicles
DORI	D: 95.3~2960 m O: 124~1429 m R: 19.06~592 m I: 7.9~296 m
PTZ	
Pan Range	360°
Pan Speed	Configurable from 0.1° to 80°/s; preset speed: 80°/s
Tilt Range	Mechanical: from -25° to 155°, auto flip at 90°
Tilt Speed	Configurable, from 0.1°~150°/s, Preset speed: 180°/s
Proportional Zoom	yes
Presets	360
Cruise	8 cruises, up to 16 presets for each cruise
Trace	4 traces, record time over 3 minutes for each trace
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Power-off Memory	yes

Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
3D Positioning	yes
PTZ Position Display	yes
Preset Freezing	N/A
Scheduled Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot

Supplement Light

Illuminator type	Zoomed IR Laser illuminator,850nm, IEC Class 4 eye safety, diagonal 70°~2.1° continuous variable.
IR Distance	Laser IR up to 800m

Video

Stream Type	main stream;sub-stream;third stream
Main Stream	2560×1440,1920×1080,1280×960,1280×720. (VL80: 25/30fps, VL81: 25/30/50/60fps)
Sub-Stream	50Hz/25fps:704 × 576, 640 × 480, 352 × 288. 60Hz/30fps:704 × 480, 640 × 480, 352 × 240
Third Stream	50Hz/25fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288. 60Hz/30fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240
Video Compression	Mainstream: Smart H.265+/H.265/H.264+/H.264 Sub stream: Smart H.265+/H.265/H.264/MJPEG Third stream: Smart H.265+/H.265/H.264/MJPEG
Video Bit Rate	32kbps to 16384kbps
ROI	dynamic face tracking;;main stream, sub-stream and third stream respectively support eight fixed areas;fixed region

Audio

Audio Compression	G.711 A/U
Audio Bit rate	64K bps

Network

Protocols	IPv4/IPv6;HTTP;HTTPS;802.1x;Qos;FTP;SMTP;UPnP;SNMP;DNS;DDNS;NTP;RTSP;RTCP;RTP;TCP/IP;UDP;IGMP;ICMP;DHCP;PPPoE;Bonjour
User/Host	32
Security Measures	Authenticated username and password;MAC address binding;HTTPS encryption;802.1X authenticated access;IP address filter
API	ISAPI;Safire SDK;ONVIF (Profile S, Profile G, Profile T);ISUP;Safire Connect
Client	Safire Control Center;Safire Connect
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plugin free

Events

Basic event	Motion detection, video tampering alarm, alarm input, alarm output, exception ((Network disconnected, IP address conflict, SD full, SD error)
Smart Event	Line crossing detection, region entrance detection, object removal detection, intrusion detection, region exiting detection, audio exception detection
Smart tracking	Manual/Auto-tracking of human/no-motor vehicle/motorized vehicle(ver5.1.1)
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.

Deep-learning Function

Face Capture	Detecting multiple faces in the same scene. Support detecting, capturing, grading, and output the best.
Face Comparison	(Default off) Yes
Perimeter protection	20

Road-traffic and vehicle detection

Road traffic	Support vehicle detection and tracking(ver5.1.1)
--------------	--

System Integration

Alarm Interface	7CH alarm input (Dry contact); 2CH alarm output
Audio Interface	1CH audio input, 2 to 2.4v[p-p] 1K Ω $\pm$ 10%; 1CH audio output (line out), impedance: 600 Ω
Network Interface	1 RJ45 10M/100M Adaptive Ethernet
SD Card Slot	One MicroSD slot and chamber, up to 256G
Built-in Speaker	N/A
RS485	Half-duplex, Pelco-P/D
BNC	N/A
Reset button	Yes
Electric Fan & Heater	Built-in electric fan for heat sink and glass Frost/Fog removal. Built-in electric heater for cold start.
Water removal	Electric wipe for water-drops, dust, mud, ice, frost. Time-schedule/manual.
Demist	Active electric heating and air loop
General	
Power	12 VDC, PoE (802.3at)
Power Consumption and Current	avg:36W, max 63.6Watt (PTZ working + IR ON + Heater on)
Power adaptor	DC36V3000mA, CE/FC/UL, 0~40 Ω AC24V5000mA, CE/FC/UL, -40 Ω , +70 Ω 90W PoE++ Midspan, FCC/UL/GB, -10, +50 Ω
Work condition	-40°C~70 Ω (-48 Ω ~ 158 Ω) IR off; -40 Ω ~50 Ω , IR on; Cold start>=- 30 Ω (0.5~1.5 hour waiting); 90%RH
Storage condition	-20 Ω ~70 Ω ; $\leq$ 80% RH
Material	Aluminum Alloy (ADC12)
Dimensions	Ω 278mm x H 435.5mm
Weight	Approx. 8.8 kg
Protection	IP67(IEC 60529-2013), IK10 (IEC 62262:2002),6000V Lightning Protection, Surge Protection and Voltage Transient Protection