



SAFR is a **unified facial recognition ecosystem** designed for the enterprise, across access control, cameras, and mobile devices.

SAFR®

Purpose Built Facial Recognition Cameras



Purpose-Built for Real World Facial Recognition

SAFR cameras are designed for real-world conditions, not controlled environments. Powered by proprietary algorithms, they capture and analyze faces in motion, at angles, and in unpredictable lighting, what we call faces in the wild.

From recognizing individuals to flagging restricted persons before entry and enabling accurate people counting, SAFR delivers capabilities traditional cameras can't match.

And unlike traditional systems that rely on costly GPU servers, SAFR processes everything directly on the device, eliminating infrastructure overhead, reducing complexity, and delivering faster, real-time results.

Engineered Specifically for Facial Recognition

Traditional surveillance cameras are designed to capture everything in view. SAFR cameras are engineered to focus on what matters most: human faces.

Similar to how license plate recognition systems prioritize alphanumeric data over background noise, SAFR is purpose-built to focus on faces within the field of view, delivering more accurate results in real-world conditions.

Our proprietary algorithms run directly on the camera, enabling real-time face detection and recognition at the edge, delivering a simpler, more scalable, and cost-effective solution for security teams.

The result: a simpler, more cost-effective solution that outperforms traditional camera systems.



Why SAFR Cameras?



No GPU Servers Required

Eliminates infrastructure costs and complexity



Real-World Performance

Works with occlusions and odd angles



High Accuracy

99.87% accuracy with low bias based on National Institute of Standards and Technology (NIST) testing



Open & VMS-Ready

Capable of functioning as a standard ONVIF camera that integrates into your existing system.



Designed in
the USA



4K UHD
Resolution



ONVIF
Compatible



The SAFR Difference

SAFR Cameras deliver unmatched accuracy and privacy at the edge.

Designed for Results. Built for Trust.



Eliminate False Positives

Harness the Accuracy, Power and Efficiency of Processing at the Edge.

Process at the Source

Images are processed on the camera at full quality (no compression), ensuring the best possible input for accurate recognition.

Face Priority Exposure (FPE)

Face Priority Exposure Mode ensures that SAFR Cameras optimize the image quality of faces rather than the surrounding field of view, regardless of the challenges of various lighting conditions

Purpose Built Optics

Specialized lenses with longer focal lengths allow for more mounting options at greater distances to lower viewing angles for better facial image recognition



Personal Privacy

SAFR FR Cameras maintain the highest levels of personal privacy. Using facial templates and data points for identification rather than storing images of users' faces, SAFR FR Cameras are compliant with the California Consumer Privacy Act (CCPA) and General Data Protection (GDPR). Biometric data is AES 256-bit encrypted and stored locally on the device. This means that no personally identifiable information (PII) needs to be captured or stored.



Algorithm Bias

SAFR is committed to achieving the lowest level of racial bias in our algorithms. This ensures fairness, accuracy, and equal treatment across different demographics and ethnicities.

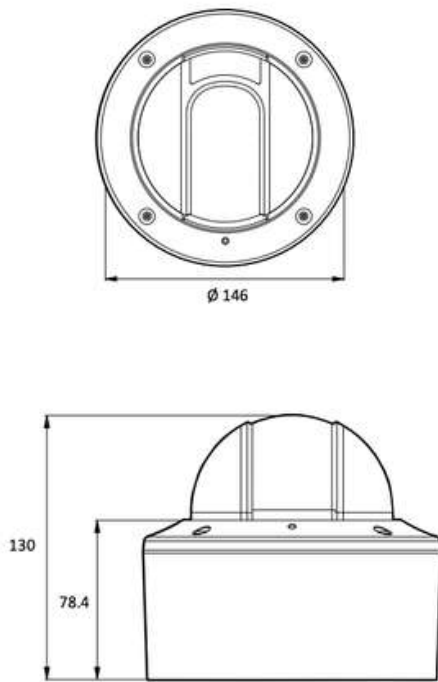
Dome Cameras	
SFR-SC800	4K (8MP) PoE dome camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 6mm - 22mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
SFR-SC820	4K (8MP) PoE low profile dome camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 2.7mm - 13.5mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
SFR-SC850	5MP PoE dome camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 5mm - 50mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
SFR-SC870	5MP PoE low profile dome camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 6mm - 22mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
Bullet Cameras	
SFR-SC810	4K (8MP) PoE bullet camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 6mm - 22mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
SFR-SC860	5MP PoE bullet camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 5mm - 50mm , IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately

Biometrics	
FAR (1:1 / 1:N)	Up to 0.0001%
Capacity	Up to 90,000 Users on Device
Operational Distance	Up to 30m (100ft)
Computer Vision	
Security	Surveillance Watchlist / Person of Interest
	Face Match and Face Search
Access Control	Face Authorization / Alerting
Analytics	Age / Gender / Sentiment
	Mask Detection
	Detection with Mask
General Electrical	
Power	PoE IEEE 802.3af Class3, DC12V
Power Consumption	DC Max 13.1W PoE Max 15.0W

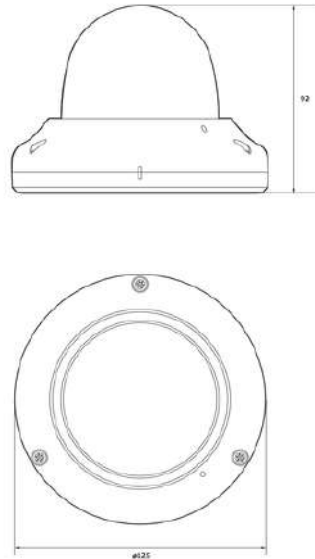
Mechanical	
Color	White
Material	Aluminum Die Casting
Weight	3.2 lbs (1.42 kg)
Light Source	IR LEDs
Environmental	
Operating Temp	-40C to +60C
Humidity	10% to 90% (non-condensing)
Storage Temp	-40F (-40C) to +140F (60C)
Vandal	IK10
IP Rating	IP67
Certifications	FCC, CE, RoHS
Network	
Ethernet	RJ45(1000Base-T(1Gbps))
Protocols	TCP/IP UDP AutoIP RTP(UDP/TCP) RTSP NTP HTTP HTTPS SSL DNS DHCP
Security	TLS, HTTPS(SSL) IP filtering 802.1x
Video Output	RTSP

Video						
Model	SC800	SC820	SC850	SC870	SC810	SC860
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Max Resolution	3840(H) x 2160(V)	3840(H) x 2160(V)	2592(H) x 1944(V)	2592(H) x 1944(V)	3840(H) x 2160(V)	2592(H) x 1944(V)
Min. Illumination	Color: 0.12 Lux · BW: 0 Lux IR Sensitive	Color: 0.12 Lux · BW: 0 Lux IR Sensitive	Color: 0.08 Lux · BW: 0 Lux IR Sensitive	Color: 0.08 Lux · BW: 0 Lux IR Sensitive	Color: 0.12 Lux · BW: 0 Lux IR Sensitive	Color: 0.08 Lux · BW: 0 Lux IR Sensitive
Signal/Noise Ratio	50dB					
Scanning	Progressive Scan					
Compression	H.264 H.265 MJPEG					
Streaming	Triple Streaming (3rd Only MJPEG)					
Bitrate	100Kbps~25Mbps					
Events						
Audio In / Out	Mic / 1 Line					
Alarm In / Out	1 Line / 1 Line					
Image						
Shutter Speed	Auto / Manual (1/30 ~ 1/32000) Anti-Flicker Slow Shutter (1/2,1/3,1/5,1/6,1/7.5, 1/10)					
Auto Gain Control	Auto					
Day/Night	True Day/Night					
Digital Noise Reduction	3D DNR					
Wide Dynamic Range	Up to 120dB, Face Prioritization Exposure, Customizable Backlight Compensation					
IR LED	100ft (30m)	80ft (25m)	100ft (30m)	80ft (25m)	164ft (50m)	
Exposure Control	Custom, Face Priority, Scene Priority					
Function	Person Detection, Mirror and Flip					
Lens						
Model	SC800	SC820	SC850	SC870	SC810	SC860
Focal Length	6-22mm	2.7-13.5mm	5-50mm	6-22mm	6-22mm	5-50mm
Aperture	F1.6	F1.4	F2.0	F1.6	F1.6	F2.0
Lens Type	Motorized, Varifocal					
IRIS Type	P-Iris Enabled					
Angle of View	H:18.1°~49.3°, V:10.2°~24.3°	H:33.1°~90.3°, V:18.9°~49.0°	H:7.7°~46.2°, V:5.7°~34.1	H:18.1°~49.3°, V:10.2°~24.3°	H:18.1°~49.3°, V:10.2°~24.3°	H:7.7°~46.2°, V:5.7°~34.1
Max Face Recognition Dist	110'	60'	170'	75'	110'	170'
Zoom	3.6x Optical	5x Optical	10x Optical	3.6x Optical	3.6x Optical	10x Optical

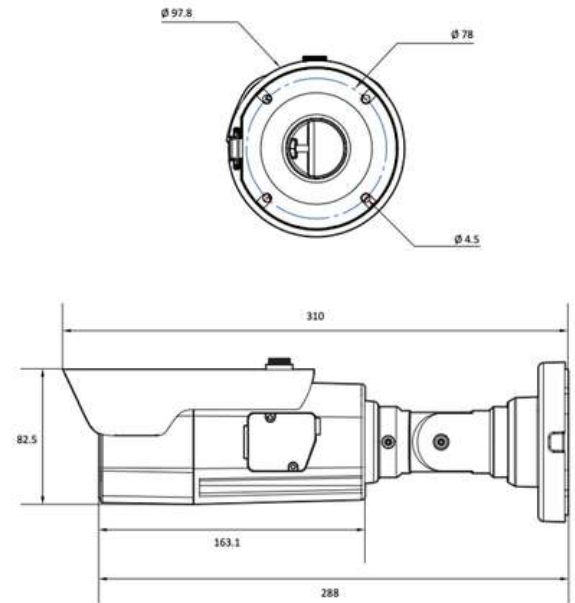
SC800/SC850



SC820/SC870



SC810/SC860



ACCESSORIES

Corner Mount*
SFR-CAM-CORNER



Pole Mount*
SFR-CAM-POLE



Ceiling Mount
SFR-CAM-CEILING
SC800/SC850



Wall Arm w/ Cap
SFR-CAM-WALL
SC800/SC850



Wall Junction Box*
SFR-CAM-JUNCTION



In-Ceiling Mount
SFR-CAM-FLUSH
SC800/SC850



Cap
SFR-CAM-CAP
SC800/SC850



*for use with bullet and dome