SAFR from realnetworks

PURPOSE BUILT FACIAL RECOGNITION EDGE DEVICES

Designed to help protect people, property and assets, SAFR cameras are purpose-built with on-device facial recognition to identify both known and unknown individuals in real time. By combining lightweight AI algorithms and edge processing, they deliver instant, actionable intelligence for enhanced security, risk mitigation, and investigation.

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

ONVIF® | MST

NDAA Compliance

SAFR Camera

AI Computer Vision Facial Recognition Edge Device

Purpose built for facial recognition applications, SAFR FR Cameras use proprietary algorithms developed for real-world challenges like capturing “faces in the wild,” identifying authorized and unauthorized faces, recognizing the faces of individuals who have been restricted or banned from facilities before they enter, counting the number of people entering, and much more. Traditional surveillance cameras cannot meet these challenges. Even when used in conjunction with server-based video analytics at a much higher cost when compared to SAFR cameras, such cameras fall short.

SAFR’s purpose-built FR Cameras are easy to install, and integrate with leading video management systems for fast and seamless deployment.

SAFR Camera Advantages...

- No servers required — edge processing eliminates costly infrastructure, lowering total cost of ownership.Fit-for-purpose with long focal length lenses, high resolution imaging, and firmware that’s designed and optimized to capture faces, instead of the full field of view
- Recognizes faces in the real world, even when occluded or when presented at odd angles
- 99.9% accuracy with low bias based on National Institute of Standards and Technology (NIST) testing
- NDAA compliant
- Non-proprietary and capable of functioning as standard ONVIF surveillance cameras

Engineered Specifically for One Purpose

Traditional surveillance cameras are engineered to provide the best possible image quality within their field of view. SAFR FR cameras have a very specific purpose. Much like the way license plate recognition cameras prioritize alphanumeric data while ignoring background details, SAFR cameras are engineered and built to optimize human faces that appear within their field of view. In addition, SAFR’s data scientists develop an algorithm that is light enough to reside on the edge within our FR cameras. By eliminating the need for costly servers to do the processing, SAFR offers security professionals a more cost-effective and practical solution than ever before.

Eliminate Fales Positives

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

1. Images are processed on the camera in their raw state with lossless compression, ensuring the best possible image is used for recognition

2. 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

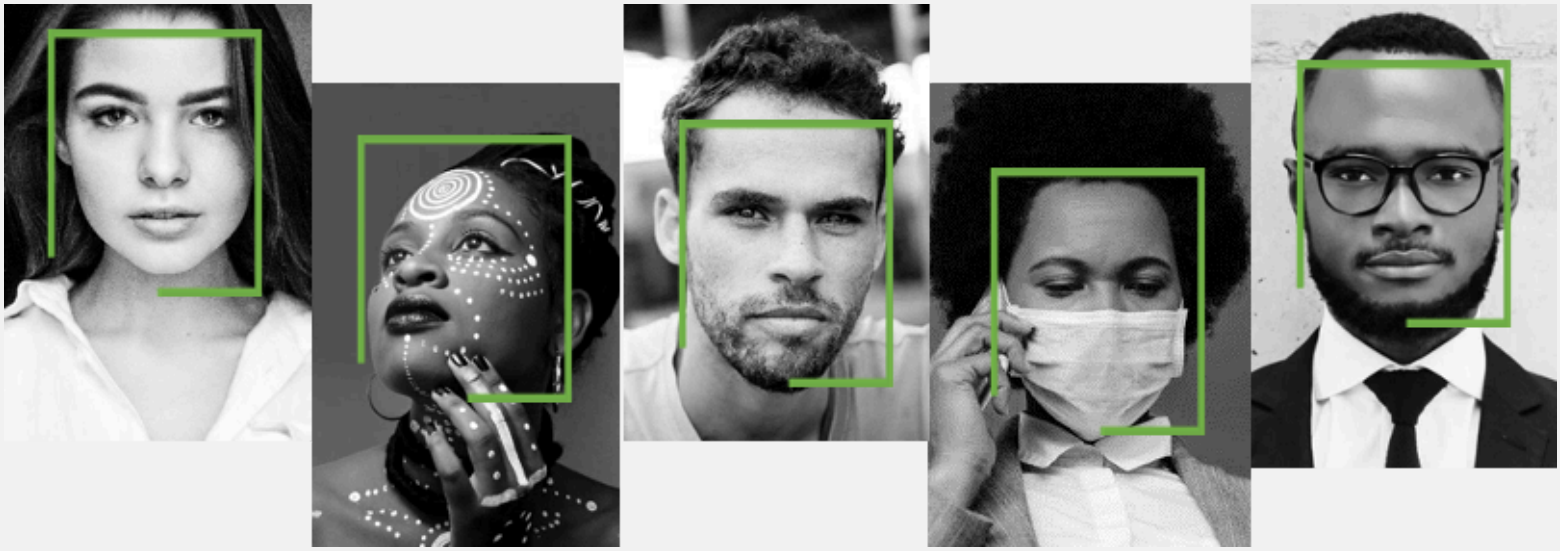
3. Specialized lenses with longer focal lengths allow for more mounting options at greater distances to lower viewing angles for better facial image recognition

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 265-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.



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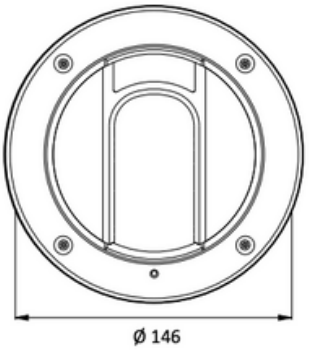
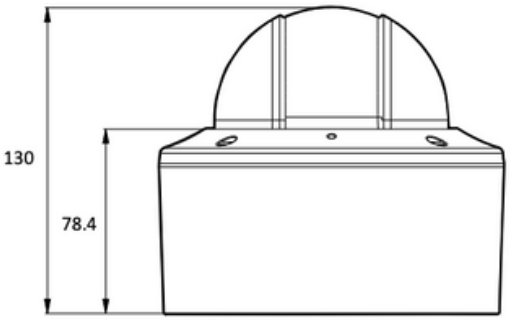
Dome Cameras	
SFR-SC800	4K (8MP) PoE dome camera with onboard AI chipset for SAFR enterprise facial recognition. SAFR License included. With motorized lens 6mm - 22mm, IR LEDs, I/O, 3 year Hardware Warranty. First year of Software support & updates free. Additional years purchased separately
SFR-SC850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

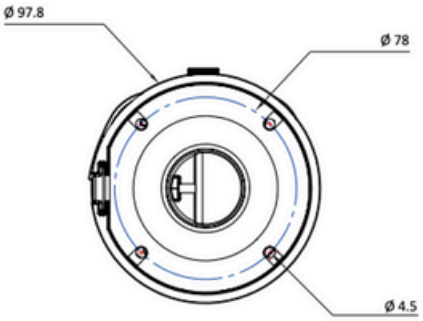
Video				
Model	SC800	SC850	SC810	SC860
Image Sensor	1 /2.8" CMOS	1 /2.8" CMOS	1 /2.8" CMOS	1 /2.8" CMOS
Max Resolution	3840(H) x 2160(V)	2592(H) x 1944(V)	3840(H) x 2160(V)	2592(H) x 1944(V)
Min. Illumination	Color: 0.12 Lux BW: 0 Lux IR Sensitive	Color: 0.08 Lux BW: 0 Lux IR Sensitive	Color: 0.12 Lux 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)		164ft (50m)	
Exposure Control	Custom, Face Priority, Scene Priority			
Function	Person Detection, Mirror and Flip			
Lens				
Model	SC800	SC850	SC800	SC850
Focal Length	6-22mm	5-50mm	6-22mm	5-50mm
Aperture	F1.6	F2.0	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:7.7°~46.2°, V:5.7°~34.1	H:18.1°~49.3°, V:10.2°~24.3°	H:7.7°~46.2°, V:5.7°~34.1
Zoom	3.6x Optical	10x Optical	3.6x Optical	10x Optical

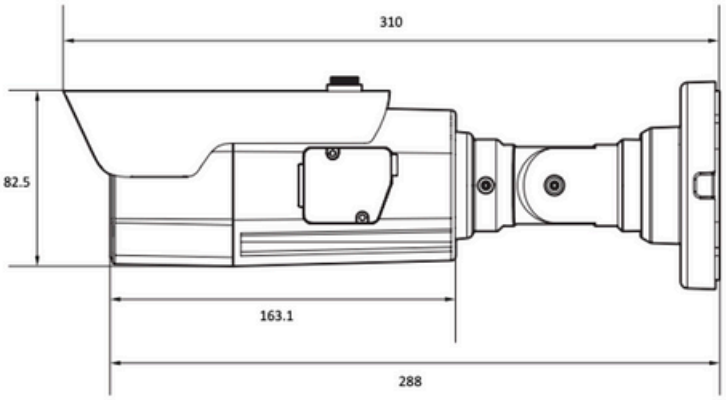
SC800/SC850





SC810/SC860





ACCESSORIES

Corner Mount*
SFR-CAM-CORNER

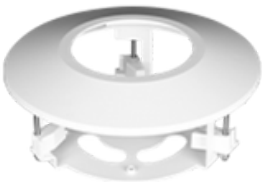
Pole Mount*
SFR-CAM-POLE

Ceiling Mout
SFR-CAM-CEILING

Wall Arm w/ Cap
SFR-CAM-WALL

Wall Junction Box*
SFR-CAM-JUNCTION

In-Ceiling Mount
SFR-CAM-FLUSH



Cap
SFR-CAM-CAP

*for use with bullet and dome

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