



SAFR[®] for Camera-Equipped Devices

Integrate world-class face recognition into products and solutions at the edge or entirely offline with SAFR SDKs and REST APIs.

Edge device and IoT designers and developers have been challenged to implement facial recognition technology in their stacks. These devices are constrained by memory, model size, and cost. We developed the SAFR SDKs to deliver the extraordinary accuracy and performance of SAFR face detection, characterization, and recognition in a highly efficient compact size, with minimal costs.

Five reasons to develop with SAFR SDKs:

1. World-class accuracy and performance for edge & IoT devices

There's no need to choose between accuracy and model size. SAFR achieves best-in-class accuracy in a small footprint with the Embedded SDK.

2. A fraction of the cost of cloud services, with price certainty

Lower TCO or eliminate cloud and bandwidth costs altogether with the Embedded SDK running completely offline.

3. Data is private and secure to protect your customers

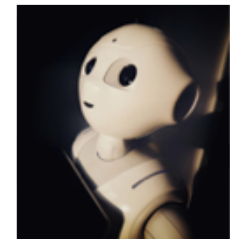
Maintain all data locally and retain total control over data retention policies.

4. Easily incorporate into your stack

Deploy on device, in app, in our cloud, locally, or entirely offline on all major operating systems and platforms.

5. Innovation from an established US-based company

SAFR is from RealNetworks, a US company with a global footprint and a 25-year history of innovation.



World-class accuracy and performance for a wide range of use cases:

DOOH • UAVs/UGVs • Kiosks • Robotics • Security • Smart Home • Smart Office • Wearables • Automotive

SDK Specifications

The SAFR SDK

Access the full capabilities of the SAFR system through RESTful APIs on all major platforms and operating systems.

PLATFORMS	Windows, Linux, macOS, Android, iOS, NVIDIA Jetson
FEATURES	<ul style="list-style-type: none">• Detection and tracking in live video streams• Recognition and DB matching• Characterization (age, gender, sentiment)• REST APIs• Identity repository and management• Video feed management
ACCURACY	99.87% LFW, 0.0335 FNMR
DETECTION SPEED	~15-60ms @1080p and 15FPS
RECOGNITION SPEED	<100ms per face
GPU SUPPORT	NVIDIA

The SAFR Embedded SDK

Add high-performance face recognition and keep data secure on devices that operate completely offline.

PLATFORMS	Windows, Android, NVIDIA Jetson
FEATURES	<ul style="list-style-type: none">• Image-based detection• Image-based recognition• Face signature store (+/- 10,000)
ACCURACY	99.87% LFW, 0.0335 FNMR
DETECTION SPEED	900ms @720p on a single core, 1.8GHz ARM processor
RECOGNITION SPEED	300ms @720p on a single core, 1.8GHz ARM processor
GPU SUPPORT	NVIDIA

SAFR REST APIs

Web access to SAFR detection, recognition, and management of recognized persons and faces. Additional interfaces provide object recognition, configuration, user management, and recognition event management.

For more information or to set up a free trial:

[Visit SAFR.com](http://www.safrealnetworks.com)

Or contact a SAFR sales representative at:

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