SAFR™

Introducing SAFR™ for Security

The premier facial recognition platform for live video.

The overwhelming number of security cameras installed in today's hospitals, stadiums, corporate campuses, airports, and more presents a major challenge for security professionals. It's seemingly impossible to have eyes on every camera every minute, so how can security teams maintain high visibility across all camera feeds to keep their people, facilities, and assets secure?

Recognize security events in real time. Every time.

SAFR facial recognition integrated with a VMS

The highly adaptable SAFR platform is ideally suited for a range of real-world security use cases where trusted, exceptionally accurate industrial-grade facial recognition is required.

SAFR for Security is the best-in-class AI-powered facial recognition solution that delivers exceptionally accurate results. Available as a standalone solution or integrated with a VMS, SAFR helps security teams stay active and engaged, reducing common issues like alarm fatigue, false positives/negatives, access-point delays, tailgating, and more. By recognizing actual security events as they happen, SAFR empowers security teams to be more situationally aware — so they can respond immediately.

The New Face of VMS

When SAFR is paired with a VMS, the integrated experience can include:

Video Overlays
SAFR features live video overlays within the VMS to identify strangers, threats, concerns, unrecognized persons, VIPs, employees, or other tagged individuals.

Configurable Alerts
Security teams can customize real-time alerts and be instantly notified when persons of interest appear on a camera feed. Notifications can be further customized to initiate a wide range of powerful response actions.

Automatic Bookmarks
Searchable by time range, location, category, person type, and registered individual, automatic bookmarks for conditional scenarios feature rich metadata and provide more efficient investigative analysis with recorded video.

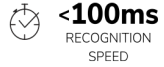## Secure an area with greater visibility, greater confidence.

SAFR for Security can instantly detect and match millions of faces in real time, even in challenging conditions where faces are in motion, at different angles, under poor lighting conditions, or partially obscured — reducing the number of false alarms and simplifying a security professional's ability to secure an area with confidence.

SAFR for Security is:

99.87%
LFW ACCURACY

<100ms
RECOGNITION SPEED

Fast & Accurate – SAFR's 99.87% accuracy rate is balanced by industry-leading performance that delivers results 3-5 times as fast as competing facial recognition algorithms. In the July 2019 NIST results, SAFR tested as both the fastest and most compact algorithm among algorithms for wild images with less than 0.0335 FNMR (False Non-Match Rate). This perfect balance of speed and accuracy means SAFR detects and matches a face in a live video feed in under 100 milliseconds.

Distributed & Flexible – SAFR's distributed architecture creates efficient bandwidth consumption. With edge intelligence for detection, recognition on the server, off-the-shelf hardware, and the ability to leverage inexpensive GPUs, the reduction in TCO is significant.
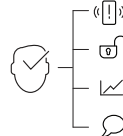
AES-256
ENCRYPTION

Windows
macOS
Linux
android
iOS
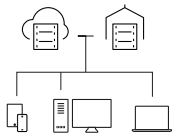
Secure – SAFR uses AES-256 encryption on all facial signatures and images in transit or at rest, and no data is passed over the internet when run on premises. A full suite of administrative tools includes easy opt-in/opt-out capabilities.

Deployment Neutral – SAFR can be deployed on a single computer to monitor a handful of IP cameras, or scaled to thousands of cameras to meet security challenges. The software can be hosted on premises or in the cloud.

Actionable – SAFR provides actionable data for live analytics with rich metadata. View traffic volumes, demographic composition, dwell times, and data exports for further reporting. Configure powerful custom actions based on recognition events, from turning on lights to sounding an alarm to initiating a building lockdown.

System requirements

SAFR Desktop for Windows

Recommended
SAFR Desktop Windows Server 2016 or later Windows 10 or later Intel Core i9-7980XE or AMD Ryzen 7 2700X or faster 1GB RAM per connected camera, 1.5GB available storage NVIDIA GeForce GTX 1070 Ti NVIDIA driver 418.96+ for GPU-enhanced performance Supports up to eight 4K cameras or 9+ 1080p cameras.[1]
Minimum
SAFR Desktop Windows Server 2016 or later Windows 8.1 or later .NET Framework 4.6.2 or later Intel Core i5-8259U or AMD Ryzen 7 2700X 1GB RAM per connected camera, 1.5GB available storage Supports up to three 4K cameras or 4+ 1080p cameras.[1]

SAFR Server for Windows

Recommended
SAFR Server Windows Server 2016 or later Windows 10 or later .NET Framework 4.6.2 or later Intel Core i9-7980XE or AMD Ryzen TR 1950 or faster 32GB available RAM 1TB available storage
Minimum
SAFR Server Windows Server 2016 or later Windows 8.1 or later .NET Framework 4.6.2 or later Intel Core i5-8259U or AMD Ryzen 7 2700X 16GB available RAM 8GB available storage

SAFR Actions for Windows

Recommended
SAFR Actions Windows Server 2016 or later Windows 10 or later Intel Core i5-8259U or AMD Ryzen 7 2700X 1GB available RAM 1GB available storage
Minimum
SAFR Actions Windows Server 2016 or later Windows 8.1 or later Intel Core i5-726OU or AMD Ryzen 7 2700X 1GB available RAM 1GB available storage

[1] Number of cameras is based on an average of five visible faces in a 4K resolution camera, running at 15 frames per second. Using fewer faces per camera and lower resolution will enable support for more cameras.

Questions? We're here to help.

Email bizdev@realnetworks.com or visit safr.com to request a demo.

Results shown from NIST do not constitute an endorsement of any particular system, product, service, or company by NIST. www.nist.gov/programs-projects/face-recognition-vendor-test-frvt-ongoing.

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