

# Facial Recognition & Biometric Identity Engine



[info@nmxworld.com](mailto:info@nmxworld.com)



[www.nmxworld.com](http://www.nmxworld.com)

**Product Overview**

This module accurately identifies individuals by matching facial features captured on live video streams against authorized or restricted databases. It handles physical access control, security watchlists, and missing persons searches while enforcing strict privacy compliance rules.

**Key Performance Metrics**

**Verification Accuracy**

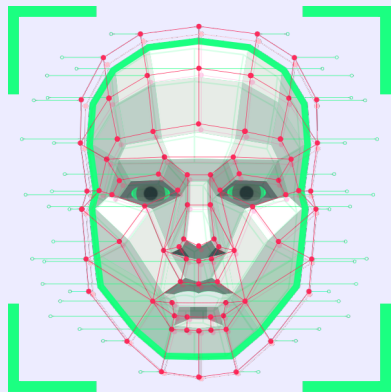
99.7% true positive match rate under optimal conditions

**Database Scale**

Supports up to 50 million unique facial records per system

**Search Execution Time**

Returns comprehensive database matches in under 0.5 seconds



**Core Functional Features**

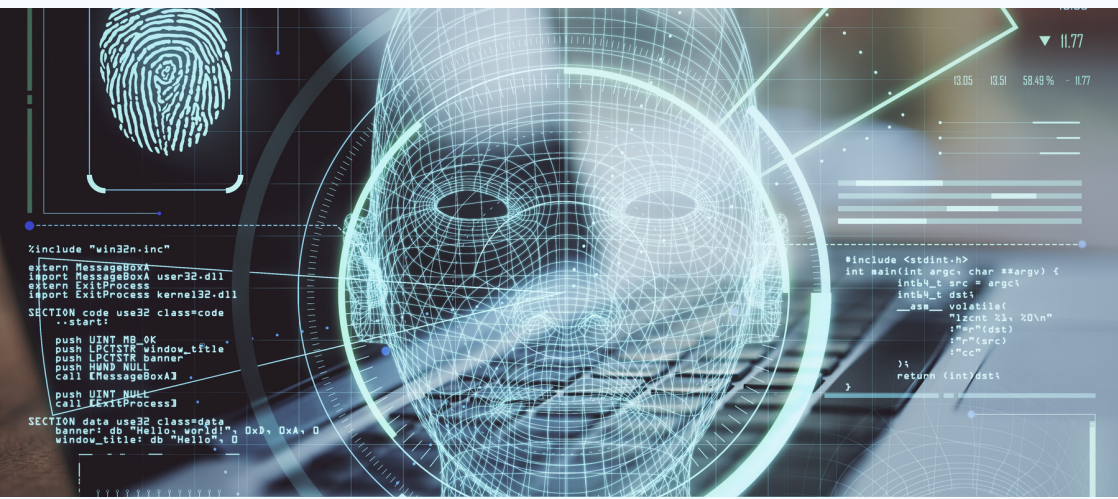
| Core Identification Capabilities  |                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Live Stream Recognition           | Scans faces from live video networks and cross-references them with watchlists on the fly.                               |
| Forensic Image Search             | Allows operators to upload a photograph to instantly locate every appearance of that individual in archived footage.     |
| Angled & Occluded Profile Support | Successfully identifies faces looking away, upward, or downward, as well as individuals wearing glasses, hats, or masks. |
| Anti-Spoofing Protections         | Automatically rejects printed photographs, smartphone video playbacks, or 3D masks trying to trick the system.           |

| Watchlists & Alert Configurations |                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| High-Priority Alerts              | Immediately routes alarms to security centers with location metadata and reference snapshots on finding a person of concern.                |
| High-Priority Alerts              | Validates employee credentials at entry turnstiles, tracks VIP guest arrivals silently, and searches for missing or vulnerable individuals. |

| Privacy & Regulatory Compliance |                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Immutable Audit Logs            | Keeps detailed records of every query, database search, and system match alongside operator IDs.                                   |
| Data Sovereignty & Erasure      | Fully compliant with international privacy mandates (like GDPR); includes tools to quickly delete an individual's data on request. |
| Data Sovereignty & Erasure      | Automatically pixelates or blurs faces in selected video regions in real-time to respect privacy laws.                             |

System Integrations

Direct API connections link face matching to automated physical doors, check-in kiosks, HR time-and-attendance systems, and secure law enforcement databases.



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