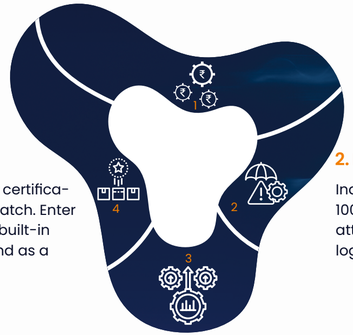
Driving
The Business Value

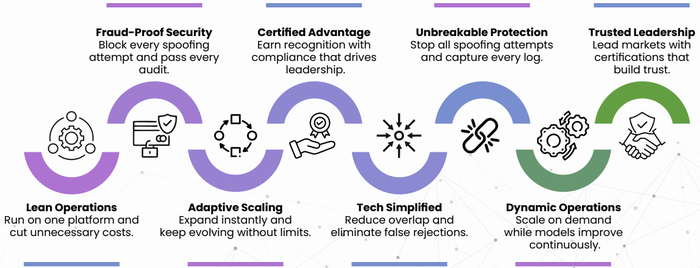
1. Cost Optimisation
Cut technology bloat with a single platform. Lower false rejections mean fewer frustrated customers and fewer support calls.



4. Market Differentiation
Hold industry-leading security certifications that competitors can't match. Enter regulated markets faster with built-in compliance. Position your brand as a leader in trusted identity.

2. Risk Mitigation
Independently validated to stop 100% of known spoofing attempts. Every interaction logged for airtight compliance.

3. Operational Excellence
Scale up instantly without planning for capacity. Models update continuously, so your defences never stand still.



What
We Protect You From

Icon	Threat Type	Attack Vector	ASIM Defence
	Face Attacks	Deepfakes, replays, masks, injection streams	AI-powered liveness detection instantly flags anomalies
	Fingerprint Spoofing	Silicone moulds, 3D-printed resins, photos	Detects micro-textures unique to real skin
	Voice Attacks	Replay recordings, GAN/TTS synthetic speech	Identifies AI-generated voices in milliseconds
	Iris Spoofing	Prosthetic eyes, printed lenses	Separates real iris reflection from replicas
	Direct Injection	Fake data streams injected pre-verification	Secures biometric data pipelines end-to-end
1:1	Multi-Biometric Spoofing	Cross-modality fraud attempts	Forces simultaneous bypass of all modalities

Deploy on
Your Terms

Cloud-Native
Fully managed SaaS with global edge delivery.

On-Premises
Keep full control with self-hosted infrastructure.

Hybrid
Combine cloud scalability with on-site processing for sensitive data.

Start today
schedule your ASIM demo !

DEMO **Contact our Experts**
to explore how ASIM can address your specific security requirement.

: idsolutions@mantratec.com : www.mantratec.com

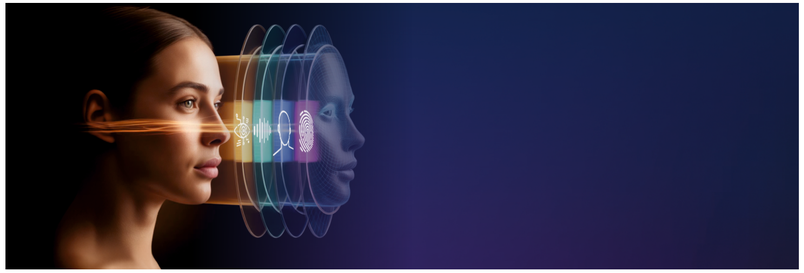
MANTRA
Innovation that counts

IDENTITY IS A STATEMENT. PRESENCE IS PROOF.

Antispoofing Intelligence Multi Biometric System (ASIM) by Mantra.

www.mantratec.com

Beyond
Verification is no longer enough



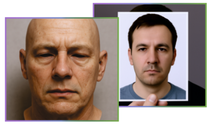
A single photo can become a lifelike video puppet. A few seconds of audio can be cloned into a convincing voice. Fake fingerprints and even iris patterns can be engineered with frightening precision.

Today, **85%** *1 of identity fraud is synthetic and fueled by AI that turns fragments into full-blown forgeries. The real question is: is the user a live person, present in this moment?

This is the new reality:

Face : The Primary Target :

- Deepfake video generation from a single stolen photograph
- High-resolution injection attacks bypassing camera inputs
- Hyper-realistic silicone masks with human-like skin texture
- 3D printed facial models with infrared signatures



Fingerprint: Stolen from a Distance :

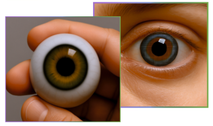
- Biometric reconstruction from HD-resolution hand photography
- Gelatin cast creation and silicone mold fabrication
- 3D-printed synthetic fingerprint generation
- Latent print lifting and detailed reproduction

Voice: Cloned in Seconds :

- Real-time voice cloning from minimal audio samples
- AI-generated speech (TTS/GAN) bypassing traditional detection
- Audio replay attacks with environmental adaptation
- Synthetic voice modulation matching target demographics

Iris: Stolen Pattern Crisis :

- Custom contact lens fabrication with overlaid stolen patterns
- High-resolution printed iris reproduction techniques
- Prosthetic eye implementation methods
- AI-generated iris texture synthesis

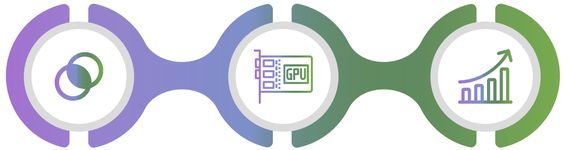


ASIM (Antispoofing Intelligence Multi-Biometric) is built for exactly to fight against such modern-day attacks. It is the next generation of defence in a world where identities can be manufactured at scale. Because in this era of AI-driven deception, presence is the only proof that matters.

Note: *1 - https://www.ftc.gov/sites/default/files/documents/public_comments/credit-report-freezes-534030-00033/534030-00033.pdf

Antispoofing Intelligence Multi-Biometric (ASIM)
Modal System

ASIM is an integrated anti-spoofing framework designed to validate liveness across face, fingerprint, iris, and voice modalities in real time. With a layered, multi-modal defence system designed to match the speed, scale, and complexity of modern spoofing attacks, ASIM combines multiple biometric traits into a single authentication process.



Fusion Logic

If the face engine accepts but the voice engine reveals anomalies, the system resolves the conflict and blocks the attempt. This forces attackers to make perfect spoofs across all modalities — a task more difficult than bypassing one system at a time.

Resolves conflicting biometric inputs

Infrastructure

The system's GPU-centric design supports heavy real-time inference loads, enabling **<1** second processing at enterprise scale. Auto-scaling logic provisions CPU instances for middleware surges and GPU clusters for deep learning workloads, sustaining **99.99%** uptime.

Scalable GPU-Centric architecture

Performance

ASIM engines achieve certification-level benchmarks such as **APCER, BPCER,** and **ACER,** validated through **iBeta** testing. The test involves thousands of attack attempts using a comprehensive range of real-world artifacts.

Certified biometric accuracy

Seamless Integration :

REST API

Standard, well-documented endpoints for rapid adoption

gRPC Streaming

High-performance pipelines for real-time authentication

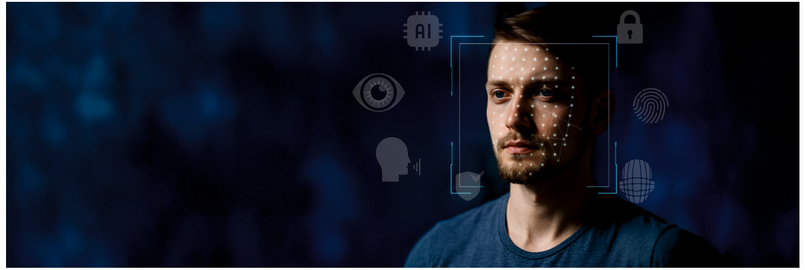
Native SDKs

iOS, Android, and Web Assembly support for direct app integration.

Enterprise Connectors

Kafka, service mesh, and batch processing for large-scale environments

Discover
What Makes ASIM Different



Liable claims are irrelevant in security, and performance under duress is the only metric that matters. ASIM is architected to exceed the industry's most stringent benchmarks for accuracy, speed, and reliability.

10,000+

Concurrent Authentications

Handles large numbers of users at the same time without slowing down, perfect for enterprises with heavy traffic.

99.99%

Availability

Built with redundant systems to ensure authentication never stops, even during outages.

0%

APCER

Blocks all known fake attempts, independently tested at iBeta Level 2, so only real users get through.

<1

Under the Second

Delivers authentication results instantly, keeping the experience fast and smooth for users.

2

Global Compliance Ready

Meets top security and privacy standards like SOC 2 Type II, GDPR, and HIPAA, keeping your data safe across industries.

Government

Banks

Telecom & Insurance

Mobile SDK