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Edge AI-Powered Palm Vein Biometrics for Zero Trust

Palm Vein Identification



Palm Vein Identification Application by Foshan Yumai Technology enables ***secure, zero-trust authentication with AI-powered palm vein biometrics.***

Palm Vein Identification by Foshan Yumai Technology delivers secure, contactless biometric authentication for smart terminals and edge computing environments. Using advanced AI models to analyze unique palm vein patterns, the solution enables fast, accurate identity verification while reducing reliance on passwords, cards, or fingerprints.

Optimized with OpenVINO™ toolkit and deployed on Intel® Core™ Ultra processors and Intel® Xeon® processors, the platform accelerates real-time recognition at the edge under varying lighting conditions and hand positions. Support for heterogeneous compute resources helps balance performance and efficiency across diverse deployment scenarios, while integrated hardware-based security protections help safeguard biometric data. The solution enables scalable, privacy-conscious authentication across enterprise, public sector, transportation, and smart city environments.

intel ai
Intel® AI Edge Applications

Key Intel-Enabled Features

Fast Edge Inference

Real-Time Verification

Enhanced Security

Model Optimization

- OpenVINO™ toolkit and Intel® Deep Learning Boost (Intel® DL Boost) optimize AI models for fast, efficient edge inference.
- Intel® Core™ Ultra processors accelerate palm vein recognition using integrated CPU, GPU, and NPU resources.
- Intel® Software Guard Extension (Intel® SGX) and Intel® Xeon® processors help protect sensitive biometric data in distributed deployments.
- Intel® Metro AI Suite and Deep Learning Streamer (DL Streamer) streamline AI deployment across smart city infrastructure.

By leveraging Intel® technologies, Palm Vein Identification by Foshan Yumai Technology enables secure, low-latency biometric authentication while helping reduce spoofing and privacy risks.

Ordering Guidance:

- Contact Us

Country/Geo: Worldwide

Edge Verticals: Smart Cities & Transportation; Retail & Consumer

Edge Use Cases: Airport Infrastructure; Smart Rail; Ports & Marine; Road Infrastructure; Crowd & Event Monitoring; Self-Checkout; Age Verification

Learn more:

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