

for Maximum Security Assurance

Face & Palm Vein Multimodal Biometrics

- Dual Biometric Authentication
- Palm Vein, Face, Card, Password, QR
- Compliant with GDPR
- Advanced Anti-Spoofing
- Dual User Verification



1. Dual Biometric Authentication for Unmatched Security

Combines facial recognition and palm vein authentication in one device, delivering **superior protection by requiring dual-verification**. Ideal for high-security environments where single-factor authentication is not sufficient.

2. High Accuracy and Robust Performance

Powered by deep learning algorithms and dual biometric matching technology, offering **accuracy rates exceeding 99.99% for both face and palm vein recognition**.

3. Versatile Environmental Adaptability

Integrated IR and 3D sensors, along with palm vein IR imaging, ensure consistent and reliable authentication performance across diverse conditions such as bright light, darkness, or when users wear masks, glasses, or hat.

4. Anti-Spoofing and Advanced Liveness Detection

Prevents fraudulent access with combined anti-spoofing measures-3D depth sensing for face, and subdermal vein pattern recognition for palm, effectively blocking attempts using photos, videos, masks, or fake palms.

5. Privacy-Centric Data Processing

Only **encrypted biometric templates** are stored and ensuring full compliance with global data protection standards such as GDPR and CCPA.

6. Flexible Authentication Options

Supports **multimodal authentication modes**: Face only, Palm only, Face + Palm (dual-factor) with card.

7. User-Friendly and Contactless Experience

Delivers a seamless, hygienic experience with **fully touchless recognition**. The system adapts to natural user movement and offers intuitive prompts via on-screen guidance.

8. Simple Integration and Remote Management

Supports **remote software updates, diagnostics, and device management**. Compatible with major access control platforms, offering **API for easy integration into existing systems**.

9. Ideal for High-Security Applications

Perfect **for data centers, laboratories, government facilities, and financial institutions** requiring the highest level of identity verification.



DATASHEET

| Category | FE-700 | FE-700VE |
|-----------------------------|---|-------------------------------------|
| CPU | 2 core CPU | 2 core CPU |
| Memory | 4GB RAM, 8G Flash | 4GB RAM, 8G Flash |
| Users for Face | 30,000 | 10,000 |
| Users for Palm Vein | NA | 10,000 |
| Users for RF ID | 30,000 | 10,000 |
| PASSWORD | YES | YES |
| Comparison Model | 1:1, 1:N, Multi Mode Authentication | 1:1, 1:N, Multi Mode Authentication |
| Event Buffer | 200,000 | 200,000 |
| LCD | 5" IPSTouch Screen | 5" IPSTouch Screen |
| Camera | Starlight camera | IR,RGB Dual lens camera |
| OS | LINUX | LINUX |
| Function | Face+Card+Password+QR code | PalmVein+Face+Card |
| Power | 12V / 400mA | 12V / 400mA |
| Detection | Single / Multi | Single / Multi |
| Face Read Range | Max 2M | Max 2M |
| Palm Read Range | NA | 15~40cm |
| Live Detection | Picture, Video, Mask | Picture, Video, Mask |
| QR Code | YES | NO |
| Communication | TCP/IP, WIFI (Option-2.4GHZ, 50METERS READ RANGE) | TCP/IP |
| Speed | <0.5 sec (1:N, 50,000users) | <0.5 sec (1:N, 10,000users) |
| Card & FREQUENCY | Default : MIFARE(13.56MHZ & 3CM READ RANGE) & EM(125KHZ & 3CM READ RANGE) | |
| Input Ports | 2ea(exit, door sensor), 1ea(fire) | |
| Output Ports | 2ea(relay,wiegand) | |
| Temperature | -20 °C~60 °C | |
| Humidity | 10~90% | |
| Product Size | 188mm x 91mm x 25mm | |
| Product Weight | 250g | |
| Certificate | CE(2014/53/EU), FCC, RoHS certifications pending | |

Product Specifications Disclaimer:

Specifications are subject to change without prior notice as a result of ongoing product innovation, component availability, and technological advancements. KJ TECH reserves the right to modify product features to maintain quality standards and optimize performance.