

PalmAI Service

The Tencent Cloud PalmAI Service is a cutting-edge biometric service that combines palm print and palm vein recognition for unparalleled user experience and security in payment, KYC, smart door lock, and access control scenarios.

Empowered Scenarios

Payment: Retail Stores, Bank Tellers, ATMs

Enhances transaction security, effectively preventing identity theft and financial fraud. Additionally, improves transactional convenience and significantly reduces user waiting times.



Know-Your-Customer (KYC)

Replaces traditional membership or ID cards in places such as grocery stores, commercial gyms, schools, hospitals, factories, office buildings etc.



Public Transportation: Subway Turnstiles, Buses

Streamlines rider verification at transportation hubs like subway, train and bus stations. Enhances access efficiency and reduce wait times.



Access Control: Access Management, Identity Authentication

Strengthens facility security, prevents unauthorized access, and minimizes security risks.



Smart Door Locks

Improves modern home entry experiences, eliminating the need to bring keys or remembering passwords. Opening the door to your home simply by a wave of the hand.



Why Tencent Cloud?



World leading AI research centers: Tencent YouTu Lab and Tencent AI Lab



Over 8000 AI patents and 1000 publications



Dedicated biometric research team publishing hundreds of top-level works

Why PalmAI?



World's First Proven Large-Scale Palm Payment Service

Serving the world's largest palm payment user base, processing billion-level transactions with over one hundred-million users



Flawless Track Record

Ultra-high recognition accuracy with robust risk control technology ensuring fast and secure payment transactions. Operating with zero misidentifications to date in production.



Smooth and instant Experience

Instant palm recognition provides smooth user interactions, without the hassle of fumbling for wallets and opening QR codes



Highly Adaptable

Recognition algorithm fully optimized for all usage scenarios, performs well with various palm positions, skin types, moisture, occlusions and lighting conditions



Trusted by Industry Leaders

Top smart door lock manufacturers integrate Tencent Cloud's palm vein verification technology, creating a new generation of high-end palm-enabled smart door locks.

Contact us now & get started with Tencent Cloud



Technical Specifications



M3



Palm Print Recognition



Palm Vein Recognition



Qr Code



Entry Control



Identity Verification



Waterproof

Application Scenarios	Palm/Card gate access control etc.
Installation Method	Desktop
Dimensions	Length 155mm * Width 90mm *Height 25mm
Camera	RGB/IR, Supports Palmprint + Palm Vein imaging
Screen	4-inch 1080P Touchscreen
Front-side Waterproof Rating	IP65
Local Library Capacity	<50k
Palm Recognition True Positive Rate	98%
Palm Recognition Angle	Pitch \leq 30° , Roll \leq 30° , Yaw \leq 180°
Palm Recognition Speed	Local recognition 600ms, centralized recognition 1.2s
Palm Recognition Distance	5~12cm
NFC Distance	0~3cm
Hardware Interface	RJ45 (Ethernet port 100M)
	USB-Debug (Micro USB)
	Reset Button
	Power supply/Wiegand/Relay Interface
Interface Options	Wiegand/Serial port
Connectivity	WIFI/BT/Wired

Technical Specifications



M4



Palm Print Recognition



Palm Vein Recognition



Qr Code



Entry Control



Identity Verification

Application Scenarios	Palm KYC
Installation Method	Desktop
Dimensions	Length 155mm * Width 133.5mm * Height 50.5mm
Camera	RGB/IR, Supports Palmprint + Palm Vein imaging
Screen	5-inch 720p Touchscreen
Front-Side Waterproof Rating	IP52
Local Library Capacity	<50k
Palm Recognition True Positive Rate	98%
Palm Recognition Angle	Pitch $\leq 30^\circ$, Roll $\leq 30^\circ$, Yaw $\leq 180^\circ$
Palm Recognition Speed	Local recognition 600ms , centralized recognition 1.2s
Palm Recognition Distance	5~12cm
Hardware Interface	RJ45 (Ethernet port 100M)
	USB type-A; USB type-C
	Reset Button
	Power supply/Wiegand/Relay Interface
Connectivity	WIFI/Wired

Technical Specifications



M2



Palm Print Recognition



Palm Vein Recognition



Qr Code



Entry Control



Identity Verification

Application Scenarios	Palm/Card gate access control etc.
Installation Method	Wall
Dimensions	Length 197.5mm * Width 87.5mm *Height 27mm
Camera	RGB/IR, Supports palm print + palm vein imaging
Screen	5-inch 480p Touchscreen
Front-Side Waterproof Rating	IP52
Local Library Capacity	<50k
Palm Recognition True Positive Rate	98%
Palm Recognition Angle	Pitch \leq 30° , Roll \leq 30° , Yaw \leq 180°
Palm Recognition Speed	Local recognition 600ms , centralized recognition 1.2s
Palm Recognition Distance	5~12cm
NFC Distance	0~3cm
Hardware Interface	RJ45 (Ethernet port 100M)
	USB
	DC in
	Power supply/Wiegand/Relay Interface
Interface Options	Wiegand/Serial port
Connectivity	WIFI/Wired