

# 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

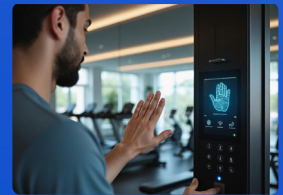
### Payment: Retail Stores, Bank Tellers, ATMs

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 $\leq 30^{\circ}$ , Roll $\leq 30^{\circ}$ , Yaw $\leq 180^{\circ}$
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 * Width133.5mm *Height50.5mm
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≤30° , Roll≤30° , Yaw≤180°
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 $\leq 30^{\circ}$ , Roll $\leq 30^{\circ}$ , Yaw $\leq 180^{\circ}$
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