ESE-VF637-T

Embedded Installation Visual Intercom Facial Recognition Host

7-INCH HD TOUCHSCREEN	DUAL-LENS HDR CAMERA	CLOUD VIDEO INTERCOM
BLUETOOTH / IC CARD	FACE RECOGNITION	OPTIONAL 4G/WIFI/POE



Product Overview

The ESE-VF637-T face recognition video intercom terminal is a high-performance, highly reliable access-control solution designed for embedded installation. It integrates face recognition, video intercom and door access control in one terminal. Equipped with a high-performance CPU featuring an integrated NPU and deep-learning algorithms, it delivers fast recognition speed and higher accuracy. The 7-inch full-HD touchscreen supports multiple verification methods including face recognition, video intercom via app or mini program, Bluetooth and IC cards, making it suitable for communities, campuses, schools, kindergartens, hospitals and similar environments.

Key Features

- 7-inch high-definition full touchscreen design.
- Integrates face recognition, video intercom and access control functions.
- High-speed CPU with built-in NPU and embedded Linux system.
- Standard Ethernet support with optional 4G / WiFi / PoE.
- Multiple unlocking methods: mobile Bluetooth, remote mobile unlocking, face recognition, video intercom, optional QR code, card swiping, PIN code, call transfer unlocking and indoor unit unlocking.
- 2MP HDR dual-lens liveness detection for anti-spoofing.
- Supports local or remote cloud management to minimize on-site maintenance.
- Supports helmet-wearing recognition.
- Embedded front-installation design with concealed rear wiring, built-in antenna and PoE support for easy installation.
- Full-metal housing with aluminum alloy and tempered glass design.

Technical Specifications

Core hardware and performance specifications for the ESE-VF637-T model.

Item	Specification
System	Linux
Main chip	Dual-core 1.2GHz
NPU	1T
Screen size	7 inch, 600 × 1024
Touch	Full screen capacitive touch
Memory	512MB
Storage	4GB
Camera	2MP dual-lens, anti-backlight wide dynamic camera
Dialing mode	Optional room number input, one-touch intercom doorbell, mobile number dialing*
Agreement	SIP*
AI recognition	Face recognition, helmet-wearing detection, automatic face detection wake-up
Audio frequency	PCMU
Microphone	Omnidirectional
Speaker	8Ω 2W
Face capacity	30,000

Access Control & Platform Features

Additional authentication, communication, control and platform-management capabilities.

Item	Specification
Card capacity	100,000
RF card type	IC (ISO14443A/B), Mifare / CPU
Elevator control function	Support
Face recognition	Optional
QR code	Optional
External access reader	Support
Wiegand output	Support
Way of opening the door	Face recognition, mobile Bluetooth, remote unlocking, card swiping, optional palmprint recognition
Access time control	Support
Always open	Support
Bluetooth unlocking range	Up to 10m (unobstructed)
Communication	Standard Ethernet, optional 4G, WiFi, PoE
Access control	1 door sensor, 1 unlock relay, 1 exit button, 1 Wiegand input, 485 expansion interface
Housing material	Aluminum alloy + sheet metal
Panel material	Toughened glass
Installation mode	Wall-mounted, gate pillar
Device size	336 × 140 × 45.5 mm
Event log	300,000

Cloud Platform Featured Functions

- Unified IoT platform integrating face recognition, access control, video intercom, parking, charging, elevator control, surveillance and more.
- Operational platform for property fee collection, parking payments, EV charging pile management, contract management, tenant management, shared space management, utilities and equipment maintenance.
- Supports integration with proprietary and third-party hardware.
- Mature API services for seamless system integration.
- Leading smart space management solutions.
- Proven success with 10,000+ smart campus and smart community deployments.

Application Notes

- Suitable for residential communities, campuses, schools, kindergartens and hospitals.
- Supports app-based or mini-program video intercom workflows.
- Embedded installation design with concealed rear wiring for clean deployment.
- Can also be adapted for wall-mounted installation when required.

Product Dimensions

Dimensional drawing for installation planning.

Product Size (mm)

