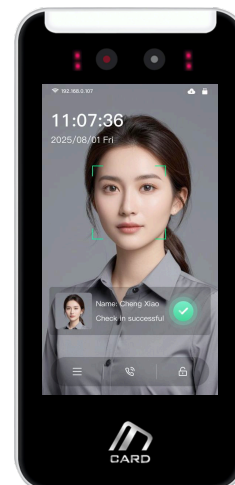


WO501 Specification

WO501 5" Outdoor SIP Intercom & Access Control Terminal with High-Speed Face Recognition and Liveness Detection

- 5–inch AI Smart Access Terminal for Residential & Commercial Video Intercom and Attendance;
- 5,000 face capacity&5,000 card capacity&5,000 palm vein(optional) ;
- Multiple verification methods including: face, palm vein(optional), cards and QR codes;
- One–tap remote door release
- Full–duplex high–definition audio and video communication via Smart Life app;
- Real–time video streaming anytime through the app and Tuya cloud storage service for all access event recording and review



Face Recognition

- Face recognition speed less than 0.1s with 99.9% accuracy rate;
- Liveness detection with effective protection against photos, videos and 3D masks;
- Adapts to facial changes and varying light conditions;
- Palm vein recognition as optional choice;
- Supports multi–factor authentication: face, password, QR code, IC/RFID card, palm vein(optional), remote unlock via mobile app.

Technical Specifications

Display & Hardware

Parameter	Specification
Screen Size	5.0–inch IPS LCD
Resolution	480×854 pixels

Parameter	Specification
Touchscreen	Capacitive touch support
Processor	High-performance AI processor
NPU	0.5T independent computing power
OS	Linux system
Memory	Built-in DDR2 128MB
Storage	128MB SPI NAND (or EMMC 8GB/16GB/32GB)

Camera Specifications

Parameter	Specification
Camera Type	Binocular camera
Resolution	0.5 megapixel
Aperture	F2.2
Focus Distance	50–150cm
Fill Light	LED + infrared dual fill light
Night Vision	Supported

Network & Connectivity

Parameter	Specification
Wired Network	10/100M Ethernet
Wireless Network	Wi-Fi (2.4GHz supported)
Cellular Network	4G module (optional)
Audio Output	2W/8Ω speaker
Audio Input	Built-in microphone
Tuya Cloud	Full ecosystem integration

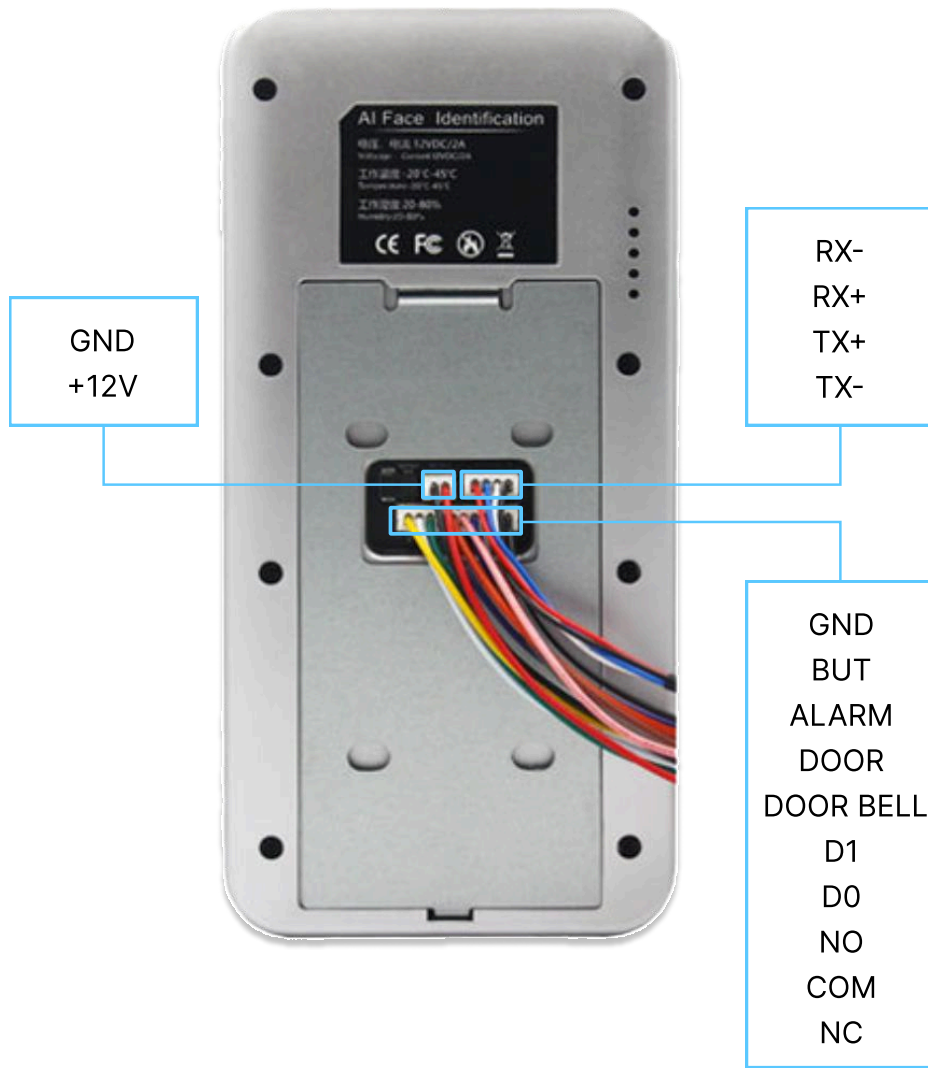
Recognition Performance

Parameter	Specification
Face Capacity	5,000 faces
Attendance Records	200,000 entries
Recognition Distance	0.5–1.5 meters
Recognition Speed	<1 second
Recognition Rate	≥99.99%
Adaptation	Supports glasses, masks, hats, and makeup

Other Specifications

Parameter	Specification
Power supply	DC12V (±10%)
Power consumption	10W (MAX)
Protection Rating	IP54 dust and water resistant
Operating Temperature	-20°C ~ 70°C
Installation	Wall Mounting
Device size	163*86*17mm
Equipment weight	0.8 (kg)

Technical Specifications



Note: Cable and interface definitions (interfaces may vary slightly between production batches)