

5-inch Access Control & Attendance Device with Integrated Intercom – Seamless Communication



Accurate Recognition

Remote Door

Binocular Detection

5-inch Full

Audio & Video Intercom

Fast Face Recognition

Unlocking-Saves

Liveness Anti-Spoofing

Viewing Angle

Seamless Communication

Time and Effort



Product Overview

The WO501 binocular facial recognition terminal supports SIP protocol for audio and video intercom, and is capable of one-to-one and one-to-many (group call or individual call) communication. The terminal integrates facial recognition, palm vein recognition, ID/IC card swiping recognition, record saving, and liveness detection functions. It is equipped with a high-definition facial recognition camera, suitable for harsh environments with strong or weak light, and features fast recognition speed, high accuracy, and a large list capacity. It can be used in conjunction with application management systems such as real-name management systems for construction sites, facial access control and attendance management systems, and visitor management systems. It is perfectly suitable for complex application scenarios in communities, campuses, hospitals, scenic spots, hotels, shopping malls, office buildings of enterprises, public service places, construction sites, etc., where temperature monitoring, identity recognition, and access control are required.

Application Scenarios



Library/dormitory door



Site/factory



Campus entrance and exit



Scenic area entrance and exit



Park commuting



Office building access control



Product Features



Audio/video intercom based on SIP protocol, supporting one-to-one and one-to-many (group call or individual call) communication



API documentation provided with support for customized development



Supports both web-based remote upgrades and local USB drive updates



Equipped with smart doorbell functionality to enable convenient communication and instant notifications



Supports 1,000-face database with 99.99%+ recognition accuracy and <1s verification speed



Equipped with industrial-grade dual-lens camera featuring night vision IR and built-in dual LED fill lights



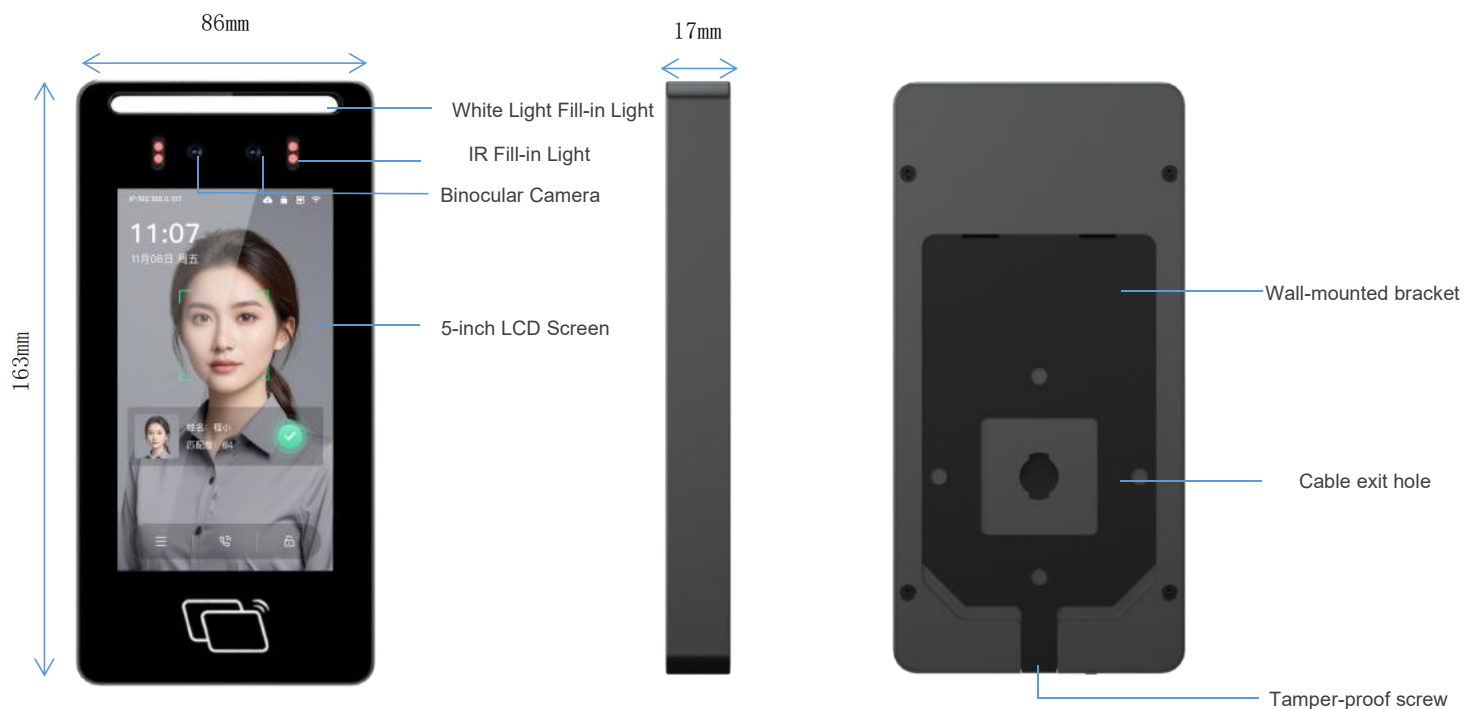
Supports local storage of 100,000 face recognition attendance records



Operates independently without external network/server connection to complete employee attendance recording and management



Product Appearance & Dimensions



Cameras

Resolution	Dual 1MP (Megapixel)
Type	Binocular Camera
Aperture	F2.2
Focus Distance	50-150cm
White Balance (WB)	Automatic
Fill Light	LED/Dual IR Fill Lights

Screen

Size	5.0-inch IPS LCD
Resolution	480x854
Touch	Support

Configuration

CPU	Arm Cortex-A7 CPU/RISC-V CPU
NPU	0.5 TOPS
OS	Linux
Memory	EMMC 8G（或者 1Gb SPI NAND）
Network Module	Ethernet, wireless (Wi-Fi), 4G (optional)
Audio	2w/8Ω
Card Reader	IC/ID card reader (optional)

System Functions

Face Database	1000 faces
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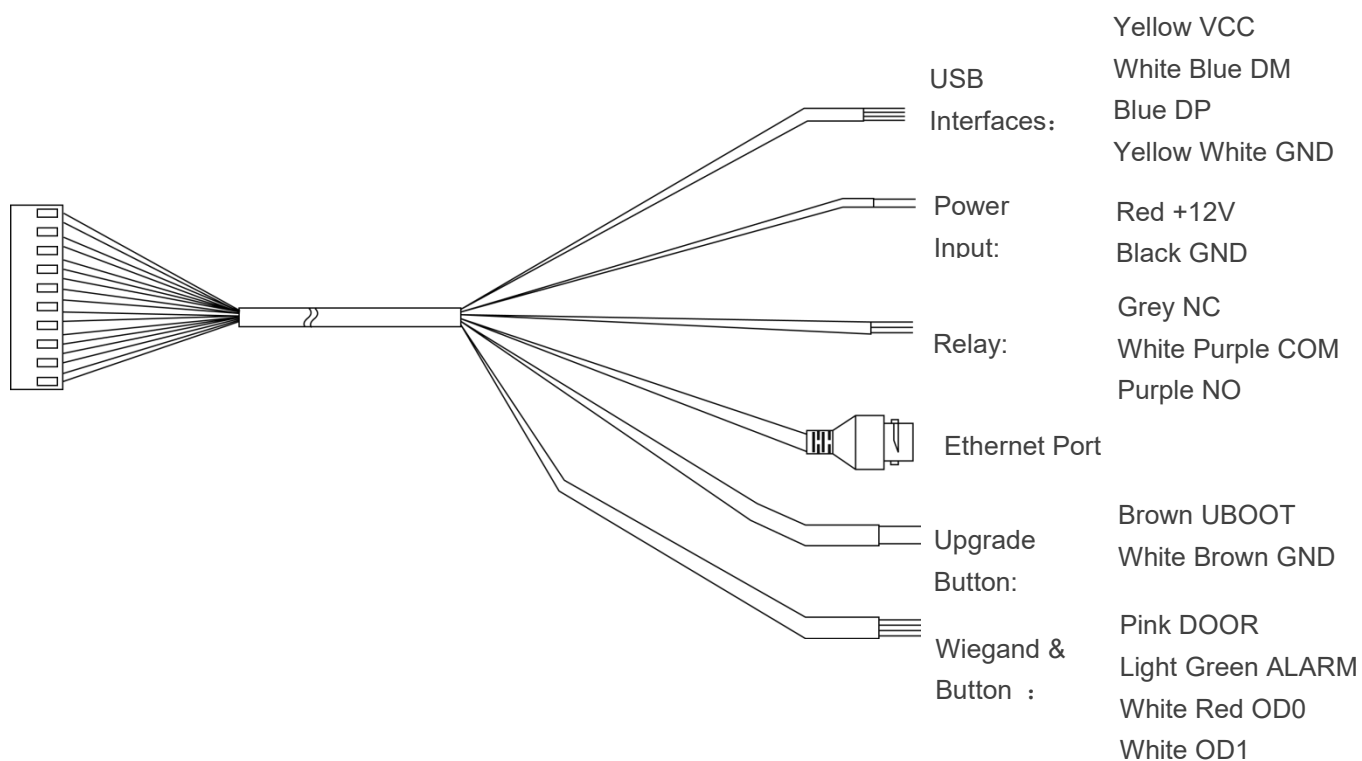
Audio & Video Intercom	Support
Attendance Record	100,000
1:N Facial Recognition	Support
Liveness Detection	Support
Stranger Detection	Support
Recognition Distance	50-150cm
Recognition Speed	<1 秒
Recognition Rate	99.99%
UI Interface Configuration	Support
Device Remote Upgrade	Support
API Interface	Device management, personnel/photo management, communication records, system settings
Deployment method	Support public cloud deployment, private deployment, LAN/stand-alone use

Standard Parameters

Power	12V 2A
Operating temperature	-10°C-60°C
Storage temperature	-20°C-70°C
Power consumption	20W (MAX)
Installation method	Wall Mounting
Protection level	IP54
Device size	163*86*17mm
Device weight	0.8 (kg)



Interfaces and Definitions



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