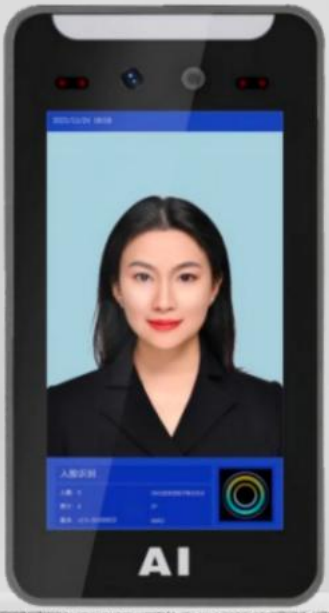
AI-Powered Face Recognition Terminal 5-Inch Access Control & Attendance Terminal



- Accurate Recognition
  Fast Face Recognition
- Remote Door Unlocking-Saves Time and Effort
- Binocular Detection
  Liveness Anti-Spoofing
- 5-inch Full Viewing Angle Touch Screen

Product Overview

The WR501 binocular facial recognition terminal integrates functions such as facial recognition, palm vein recognition, identity verification, on-site facial image collection, blacklist warning, photo capture upon entry, and liveness detection. It is equipped with a high-definition facial recognition camera and can adapt to harsh environments with strong or weak light. It 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, and construction sites 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

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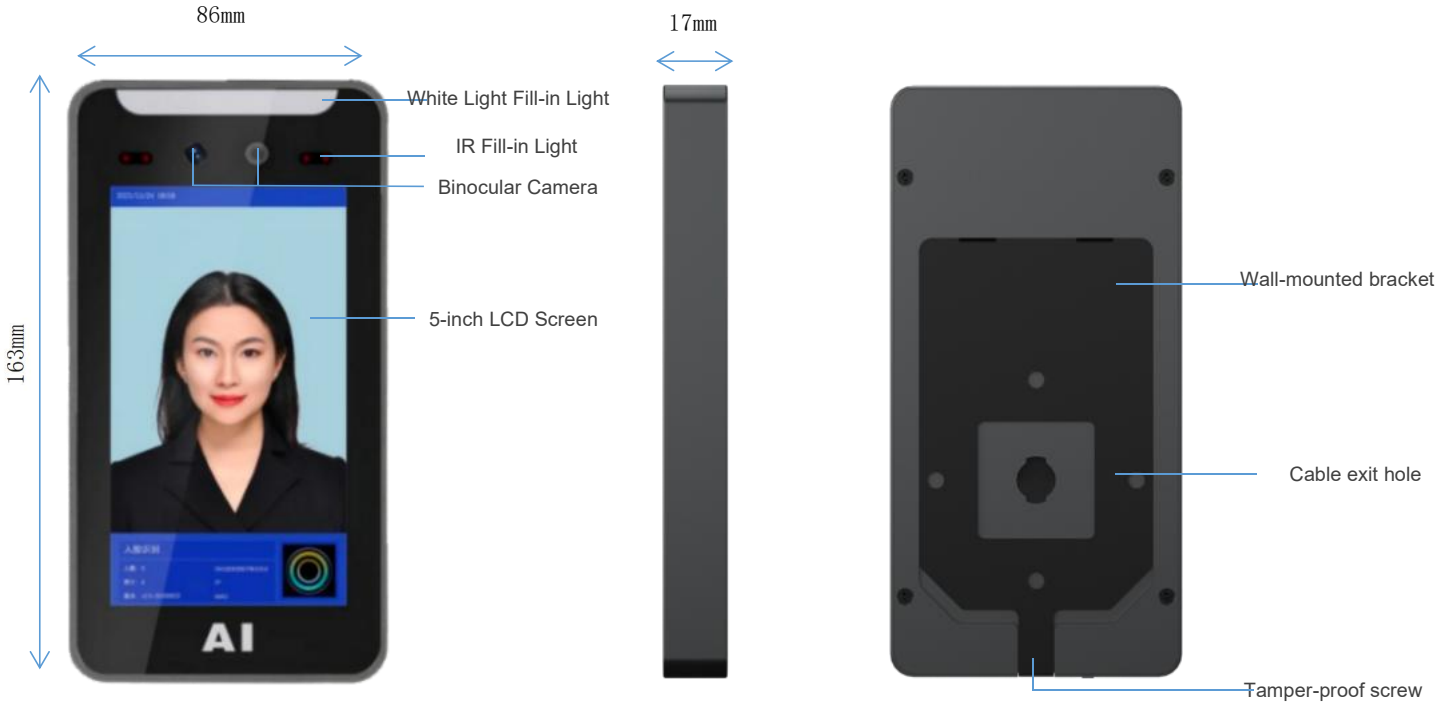
Product Features

- 5-inch IPS full-viewing-angle LCD display
- API documentation provided with support for customized development
- Supports both web-based remote upgrades and local USB drive updates
- Supports accurate facial recognition and comparison even when wearing a mask
- Supports 5,000-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
- High-performance AI processor with a powerful standalone NPU delivering 1.0 TOPS computing power

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	Single-Core CPU
NPU	1.0 TOPS
OS	Linux
Memory	EMMC 8G
Network Module	Ethernet, wireless (Wi-Fi), 4G (optional)
Audio	2w/8Ω
Card Reader	IC/ID card reader (optional)

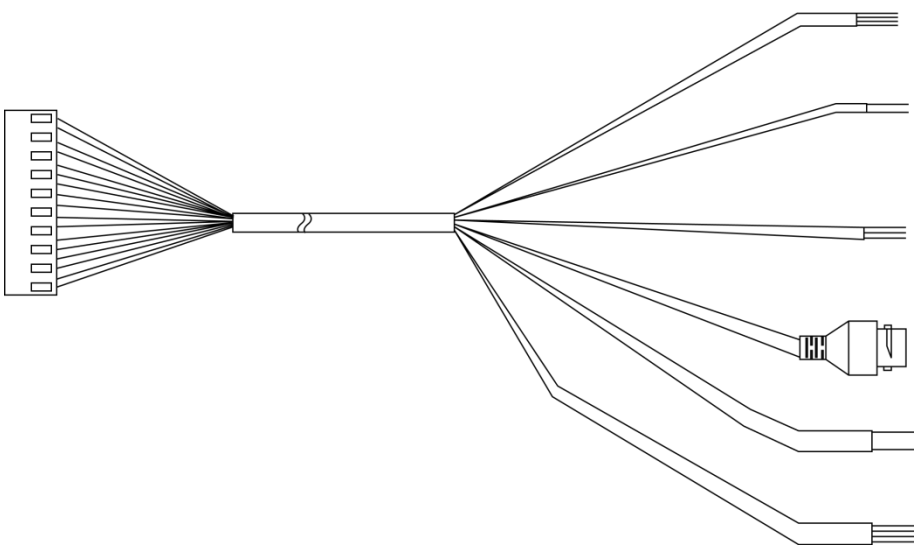
System Functions

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



USB Interfaces：
Yellow VCC
White Blue DM
Blue DP
Yellow White GND

Power Input:
Red +12V
Black GND

Relay:
Grey NC
White Purple COM
Purple NO

Ethernet Port

Upgrade Button:
Brown UBOOT
White Brown GND

Wiegand & Button ：
Pink DOOR
Light Green
ALARM
White Red OD0

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