WO801 Specification

8-Inch SIP Video Intercom & High-Capacity Face Recognition Terminal

- 8-inch AI Smart Access Terminal for Residential & Commercial Video Intercom and Access Control;
- 20,000 face capacity & 200,000 attendance records;
- Multiple verification methods including: face, fingerprint, palm vein, QR code, mini-program, IC/ID card, and combination authentication;
- SIP-based audio-visual intercom (one-to-one and one-to-many);
- Remote and local upgrade support (web & USB);
- AI-powered high-performance processor with 1.0T NPU;

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,fingerprint, QR code, IC/RFID card, palm vein, remote unlock via mobile app.

Technical Specifications

Display & Hardware

Parameter	Specification
Screen Size	8.0-inch IPS LCD
Resolution	800×1280 pixels

Parameter	Specification
Touchscreen	Capacitive touch support
Processor	Dual−core AI processor
NPU	1.0T independent computing power
OS	Linux system
Storage	eMMC 8G or Nand 1/2Gb

Camera Specifications

Parameter	Specification
Camera Type	Dual−lens wide dynamic camera
Resolution	Dual 2MP
Aperture	F2.2
Focus Distance	50−150cm
Fill Light	LED + infrared dual fill light
Night Vision	Supported

Network & Connectivity

Parameter	Specification
Wired Network	Ethernet
Wireless Network	Wi−Fi (2.4GHz supported)
Cellular Network	4G module (optional)
Audio Output	2W/8Ω speaker
Audio Input	Built−in microphone

Recognition Performance

Parameter	Specification
Face Capacity	20,000
Attendance Records	200,000
Recognition Distance	0.5–1.5 meters
Recognition Speed	<1 second
Recognition Rate	≥99.99%
Adaptation	Glasses, masks, hats, makeup supported

Other Specifications

Parameter	Specification
Power supply	DC12V 2A
Power consumption	24W (MAX)
Protection Rating	IP65 dust and water resistant
Operating Temperature	−20℃ ~ 70℃
Installation	Optional wall–mounted or column–mounted
Device size	258*134*20mm

258mm

134mm

8-Inch Screen

Wall-Mounted Bracket

Strut
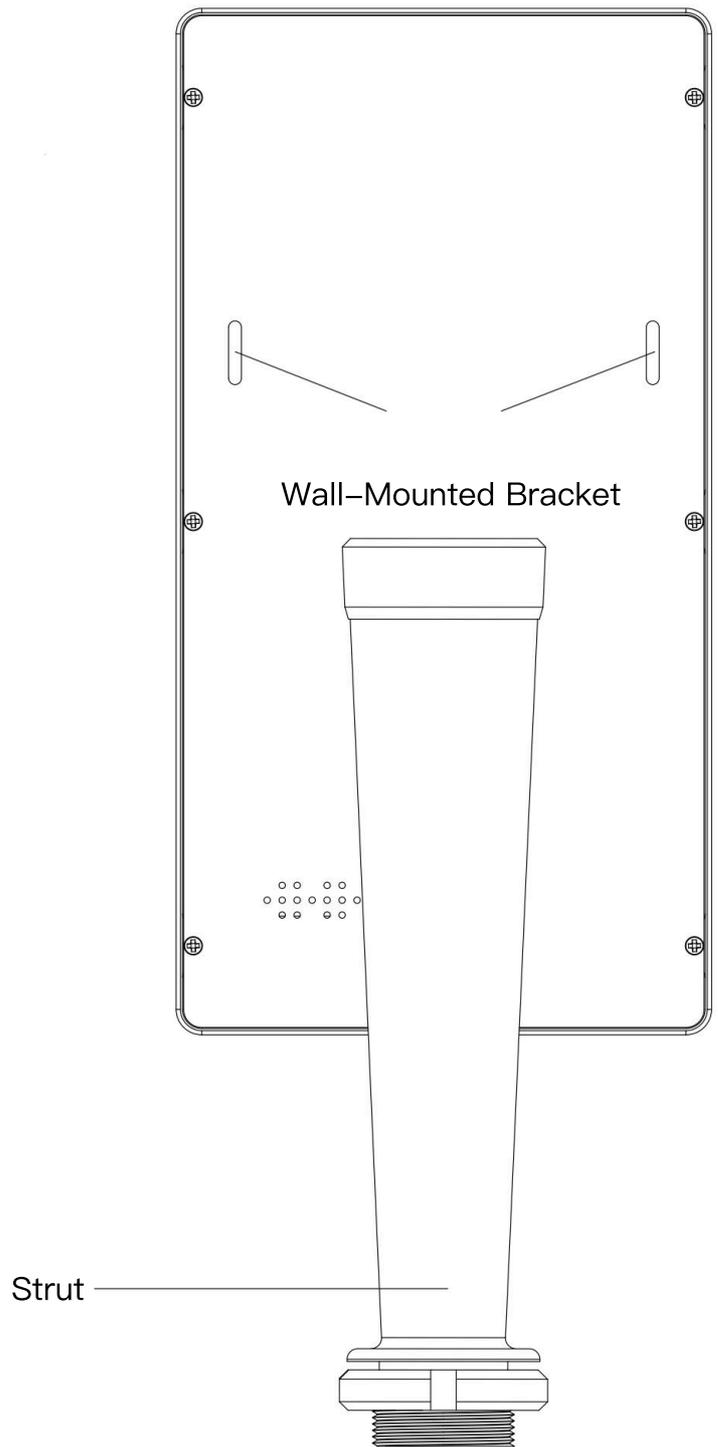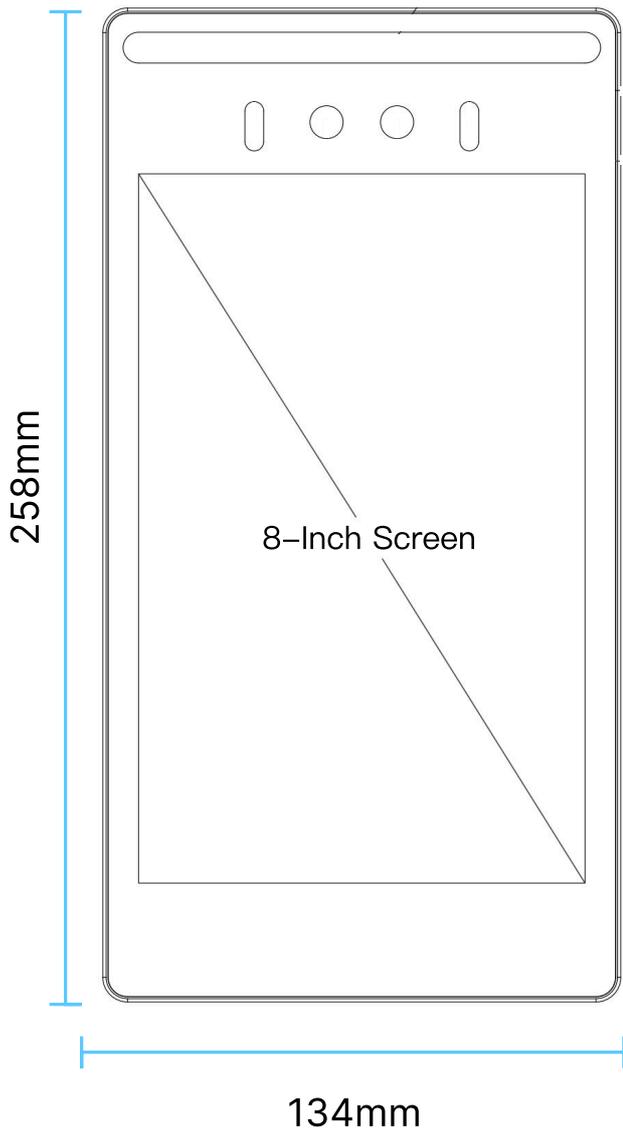
Interfaces and Definitions

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
- White OD1
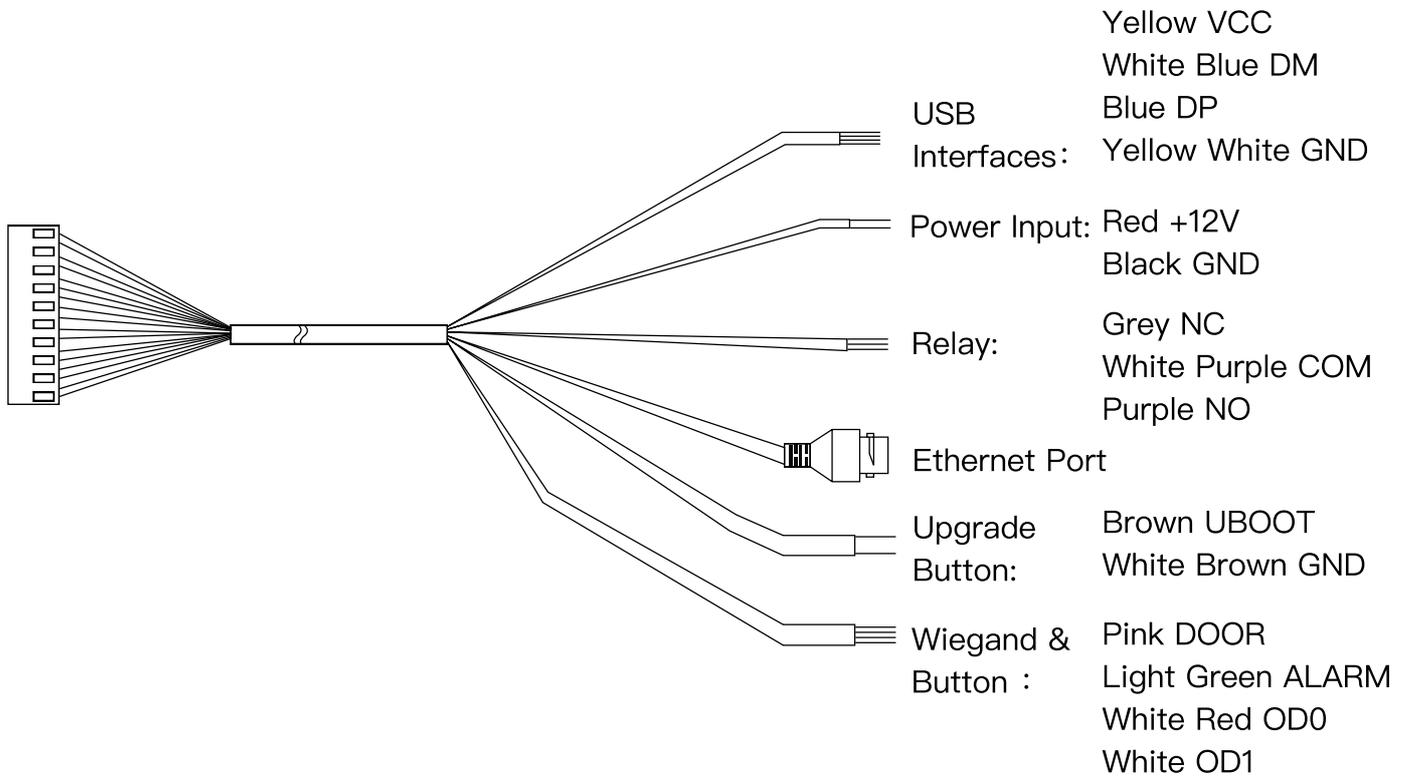
Note: Cable and interface definitions (interfaces may vary slightly between production batches)