



Facial Recognition Terminal

DAC FRT361



User Manual

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Shenzhen Das IoT Technology Co., Ltd.

Preface

Purpose of the Manual

- This manual is for reference by users and technical personnel. Please read this manual carefully before using the product.
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Product Overview

1.1. Product Introduction

DAC FRT361 is a facial recognition terminal equipped with an 8-inch high-definition touch screen. It adopts an under-screen card reading design to maximize the screen-to-body ratio with a simple and elegant appearance. With an IP65 waterproof rating, it is suitable for indoor and outdoor scenarios and features high durability.

Equipped with binocular high-definition cameras, the device supports local facial recognition, card reading, password verification and QR code authentication to meet diverse user demands.

For turnstile access control scenarios, an external ID card module supports identity document verification. The built-in white fill light ensures stable recognition in low-light environments.

It is ideal for access management in office buildings, residential communities, industrial parks, schools, multi-purpose venues and transportation hubs.

1.2. Product Appearance



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Features and Functions

2.1. Product Features

- Dynamic dual-camera anti-spoofing technology effectively prevents deception attacks from photos and videos of various media forms.
- Quad-core ARM Cortex-A55 processor, single-core main frequency up to 1.8 GHz, built-in NPU with 1.2 TOPS computing power.
- The chip adopts advanced 12nm manufacturing process, generating less heat than similar products, and runs on Android 9.0 operating system.
- Supports live fill light enhancement, automatic low-light fill light and scheduled fill light strategies.
- Supports exclusive under-screen card reading technology and encrypted card reading & writing.
- Supports facial recognition, M1/CPU card recognition and QR code recognition.
- Supports 10/100M wired network, Wiegand 26/34 output interface and relay output.
- Supports local storage of up to 100,000 access records and 30,000 snapshot records.
- Face database capacity: up to 100,000 face templates.
- Supports deployment via public network and local area network.
- Supports API integration based on HTTP.
- Supports configurable voice broadcast content.

2.2. Function List

- **Opening methods:** Supports facial recognition, IC card swiping, QR code scanning and password entry.
- **Combined authentication:** Supports multiple composite modes such as Face + Password, Face + Card Swiping to improve access security.

- **Local list:** Supports local face registration and batch distribution from platform; maximum whitelist capacity up to 100,000 entries.
- **Permission Management:** Supports local permission judgment and online permission verification to adapt to various networking scenarios.
- **Face recognition performance:** Monocular verification time $< 0.5s$, recognition accuracy $\geq 99\%$, ensuring fast and accurate passage.
- **Live Anti-counterfeiting:** Equipped with dual cameras and infrared live detection to effectively prevent forgery attacks using photos and videos.
- **Door contact alarm:** Supports door contact status detection, and configurable local alarms for timeout door unclosed and unauthorized door opening.
- **Record Storage:** Stores 100,000 access records and 30,000 snapshot records, supporting historical query and event traceability.
- **Offline operation:** Supports standalone offline operation; normal facial authentication and door opening are still available when the network is disconnected.
- **Human-computer interaction:** Equipped with voice broadcast and screen display to feedback real-time access status with intuitive operation.

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Product Technical Specifications

3.1. Physical Parameter

Item	Parameter	DAC FRT361 (Wall-mounted)	DAC FRT361B (Turnstile Version)
Screen	Size	8-inch IPS HD Display	8-inch IPS HD Display
	Resolution	800 × 1280	800 × 1280
Camera	Type	Infrared / RGB	Infrared / RGB
	Resolution	1920 × 1080	1920 × 1080
	Aperture	F2.0	F2.0
	Focal Length	4.3mm	4.3mm
	Wide Dynamic Range	≤95dB / ≤105dB	≤95dB / ≤105dB
	Vertical Viewing Angle	62°	62°
	Horizontal Viewing Angle	40°	40°
Basic Specs	OS	Android 9.0	Android 9.0
	CPU	Quad-core A55, up to 1.8GHz	Quad-core A55, up to 1.8GHz
	NPU	1.2 TOPS Computing Power	1.2 TOPS Computing Power
	Memory / Storage	2GB RAM + 16GB ROM	2GB RAM + 16GB ROM
	Power Supply	DC 12V (±10%) 2A	DC 12V (±10%) 2A
	Max Power Consumption	15W	15W
	Humidity	0%~90% (Non-condensing)	0%~90% (Non-condensing)
	Working Temperature	-20℃ ~ 60℃	-20℃ ~ 60℃
	IP Rating	IP65	IP65
	Application	Indoor / Outdoor	Indoor / Outdoor
	Dimension	222×124×23mm (L×W×H, without bracket)	Main body 222×124×23mm; recommended mounting hole diameter 34mm
	Installation	Wall-mounted	Turnstile embedded

Recognition	Support Mode	Face / Password / M1 Card / CPU Card / ID Card / QR Code	Face / Password / M1 Card / CPU Card / ID Card / QR Code
	Recognition Accuracy	≥99.9%	≥99.9%
	Recognition Distance	0.4m ~ 1.5m	0.4m ~ 1.5m
	Face Database	100,000 persons max.	100,000 persons max.
Interface	USB	1 × USB2.0	1 × USB2.0
	Network	10/100M Ethernet(RJ45)	10/100M Ethernet(RJ45)
	Relay Output	1-CH Relay	1-CH Relay
	Wiegand Output	1-CH Wiegand 26/34	1-CH Wiegand 26/34
	Door Contact Input	1-CH	N/A
	Exit Button Input	1-CH	N/A
	RS485	1-CH	1-CH
Others	Infrared Fill Light	Supported	Supported
	White Fill Light	Always-on / Always-off / Auto mode	Always-on / Always-off / Auto mode
	Speaker	Monaural, 3.0W	Monaural, 3.0W

3.2. Product Size

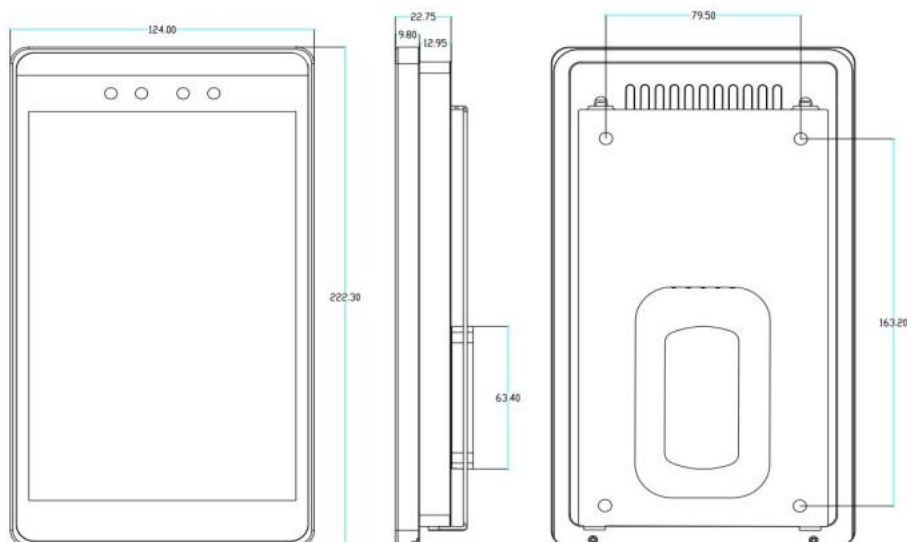


Figure 3.2.1 Wall-mounted dimension diagram

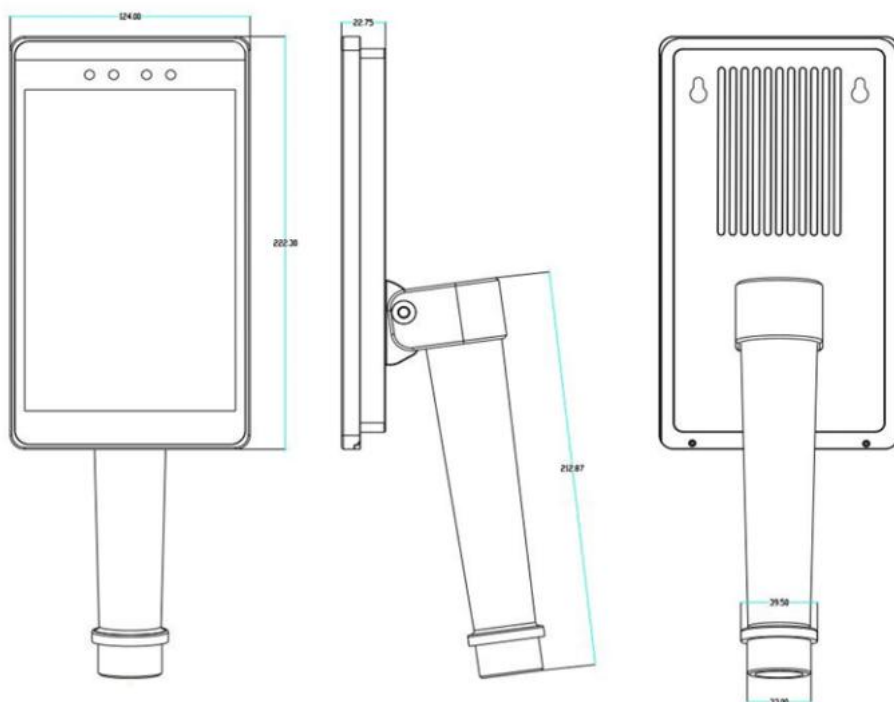


Figure 3.2.2 Turnstile Mounting dimensions diagram

3.3. Internal components

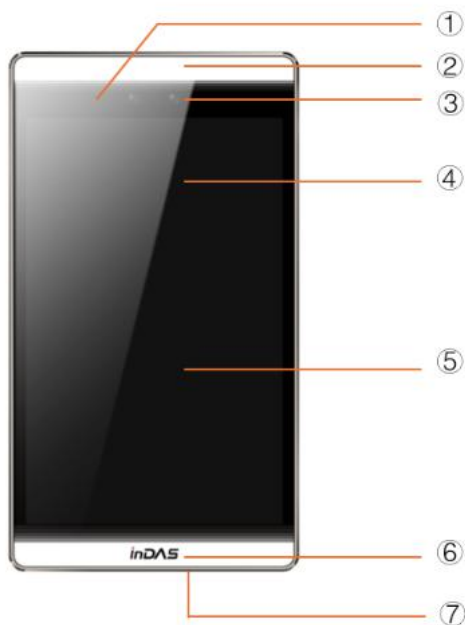


Figure 3.3.1 Component Labeling Diagram

No.	Name	Description	Remark
①	Infrared Fill Light	Enhance low-light imaging, resist ambient light interference and improve anti-spoofing performance	Standard
②	White Fill Light	Improve image clarity and color restoration under dim environment	Standard
③	Binocular Camera System	Facial acquisition and live detection	Standard
④	HD Touch Display	8-inch IPS, 800×1280, capacitive touch	Standard
⑤	Under-screen Card Reading Area	Support IC / encrypted card serial number reading, compact panel layout	Standard
⑦	Brand Logo	DAS brand identification	Standard
⑧	Bottom Speaker	Voice broadcast outlet	Optional

3.4. Interface & Wiring Definition

External Interface Hardware Wiring Instructions		
Interface	Pin	Description
Ethernet	RJ45	10/100Mbps network
Power	DC Port	DC 12V/2A power adapter input
External Input	GND / AJ / MC	Exit button & door contact, common ground
USB	USB2.0	Connect external mouse
RS485	A+ / B-	Extended communication interface
Wiegand	GND / D1 / D0	Wiegand signal output
Relay	COM / NO	Max contact load: 1A

4 Packing List

4.1. Packing List

No.	Item	Q'ty	Remark
1	Main Device	1	Standard
2	Power Adapter (12V/2A)	1	Standard
3	Certificate of Conformity & Warranty Card	1	Standard

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After-sales Maintenance&Service

5.1. Warranty & Maintenance Policy

1. Quality Assurance Service

This product provides 1-year free full-unit warranty. Within the warranty period, hardware failures not caused by human damage will be repaired free of charge.

2. Maintenance Overhaul

The device supports remote online firmware upgrade to fix functional defects remotely and optimize recognition performance.

Regular firmware updates are provided to ensure facial recognition accuracy and system stability.

3. Fault Response

Provides 7×12-hour technical support, responds to fault issues within 1 hour and provides remote troubleshooting assistance.

If the fault cannot be fixed remotely, on-site maintenance or spare part replacement service is available.

4. Usage Protection

Supports face database backup and access record export to prevent data loss.

Provide operation training and configuration guidance to ensure stable and normal equipment operation.

5.2. After-sales Contact Information

Shenzhen DAS IoT Technology Co., Ltd.

Company Address: Das Tower, No.7, High-tech South Third Road, Shenzhen Nanshan District High-tech Industrial Park

Contact Hotline

Shenzhen Headquarters: 0755-86368199

Shanghai Branch: 021-55666161

Beijing Office : 010-58650322

Guangzhou Office : 020-85510689

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.