

SPECIFICATION



FA151 Face Recognition Reader with Fingerprint



FA151 Face Recognition Reader

Description

The MAG FA151 is a next-generation face recognition reader engineered with an advanced tracking algorithm for rapid, high-accuracy authentication. Boasting a slim, modern profile and a vibrant 5-Inch IPS HD touchscreen. Enclosed weatherproof housing suitable for outdoor usage. Designed for ultimate versatility, the MAG FA151 is perfect for door access control, pedestrian gates, or even luxury lift access.

It is suitable for office building, school, hospital, airport, condominium, factory and etc.

Features

1. **5 in 1 Access.** FA151 offer flexibility with 5 access mode which is **face** recognition, **card**, **PIN**, **QR code** and **fingerprint**.
2. **High user capacity up to 15k faces.** With the high user capacity, it is ideal for usage in any big office, factory, school or any commercial building.
3. **Automatic Depth Measuring (ADM) technology.** This is to minimize front-gating where an authorized people trying to cheat for access.
4. **Automatic Adaptive Distance Reading (AADR) technology.** Adaptive detection towards all critical biometric point even though when the face is moving.
5. **Mask detection.** Reader can differentiate if the face is with or without the mask. FA151 can be set to deny access when the face is scanned without a mask.
6. **Dual FOV 75° WDR HD camera featuring IRSense and ColorSense technology.** Both technology work hand-in-hand to reject displayed face photo or video even under low lighting environment. A Smart LED fill light will be automatically illuminated in order to recognize face in dark condition. Face recognition under both high contrast or lower lighting conditions.
7. **IP65-rated weatherproof housing.** IP65-rated weatherproof housing guarantees robust protection against dust, water and hot weather.
8. **Power saving mode.** Reader will hibernate if there is no face detection after a prefix time. For crowded environment, you can set to wake up the reader by touching the LCD screen instead of the default wake up upon scanning any face that passes by.

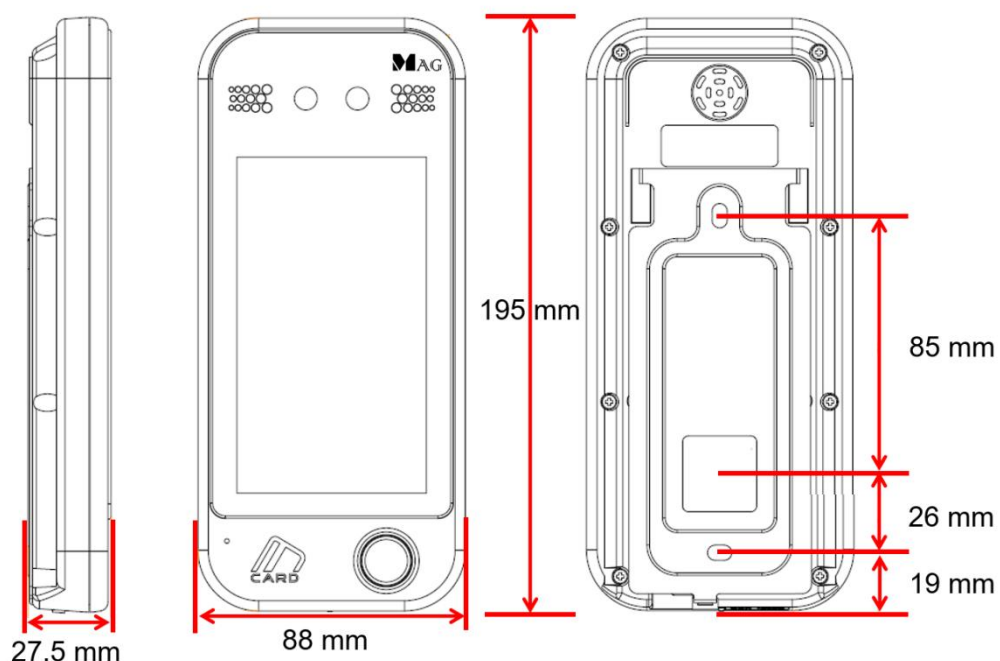
Technical Parameters

Access	
Access Mode	● Face , Card, PIN, Fingerprint, or QR code only ● Face + Fingerprint / Card / PIN; ● Fingerprint + Card / PIN; ● Card + PIN
Face Recognition Mode	1:N
Face Recognition Distance	Close: 0.5m, Moderate: 1.5m, Far: 2.5m
Stranger Access Mode	Yes (*Allow stranger access once enabled)
Access Level	Admin access and normal user access
Validation Display	Name & avatar (*Enrolled picture as thumbnail once enabled)
Integrated door bell	Yes (*On-Screen button with rear buzzer output)
Picture Capture	Yes
Face Recognition	Real-time multiple live person face recognition (<0.2 secs) (Max. 5 person for multi live person recognition) <u>False Approval Rate (FAR):</u> ● FAR <= 0.001% (with actual face without face mask) <u>False Rejection Rate (FRR):</u> ● FRR <= 0.1% (with actual face without face mask)
Live Face Detection	No detection for both video and photo
Mask Detection	Yes (*Best detection with normal bright color face mask once enabled. Accuracy & efficiency might vary for fancy/ black color face mask.)
Card reader	EM proximity card (125kHz) (*13.56MHz card: MIFARE, DESFIRE or HID by order)
Capacity	
User Capacity	25,000 Users (15k Faces; 25k Cards; 25k QRs; 25k PINs)
Fingerprint capacity	10,000 Fingerprints (2 Fingerprints per user by default)
Event Log Capacity	500,000
Display Screen	
Display	5-Inches 720x1280 IPS HD (Touchscreen)
Camera	
Camera Module	1/5" FOV 75° 2MP IRSense Live Camera 1/2.9" FOV 75° 2MP ColorSense HD Color WDR Camera
Fill Light	Smart LED Fill light and IR light
System	
CPU/ NPU	CPU: 1.2GHz Dual Core ARM Cortex A7; NPU: 1 TeraFLOPS computing speed/sec
RAM/ ROM	RAM: 2GB DDR3L; ROM: 4GB eMMC
System OS	LINUX

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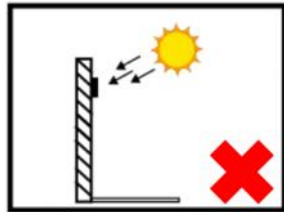
Peripheral	
Network	TCP/IP or WIFI (*Stability rely on wireless signal quality)
USB	1 x USB Type A (For U-disk only) *For user data upload, backup and firmware upgrade only
RS485 & Wiegand	1 x RS485; 1 x Wiegand 26/34 (In & Out)
Relay (Dry Contact)	1 x Relay (COM, NO and NC) *Recommend connect to an additional relay and fly-back diode for high voltage draw device like electric drop bolt & EM lock
I/O supported	Door sensor, external door bell, fire emergency and alarm.
Power supply	12VDC 2A *Separate of power supply and fly-back diode is needed for high voltage draw device like electric drop bolt & EM lock *Surge protector is recommended for out door usage
Product Housing	
Housing Material	Plastic
Ingress Protection	IP65
Working Temperature	-15~60°C (Storage temperature: -35~60°C)
Working Humidity	20~80% (Storage temperature:20~80%); Non Condensing
Dimension	195 x 88 x 27.5 (in mm)

Dimension

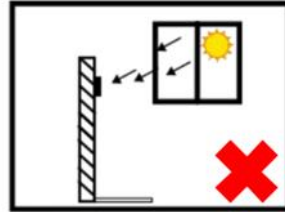


Installation Recommendation

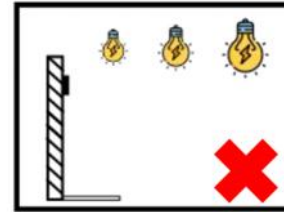
PRECAUTION



No Direct Sunlight

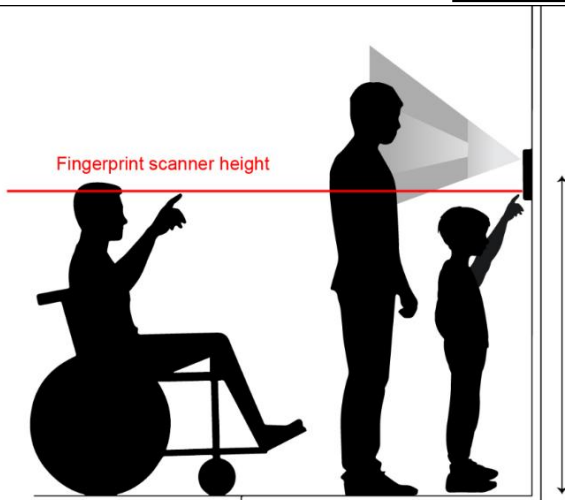


No Indirect Sunlight
through Windows/
Reflective Mirror



Don't Too Close
to Light Source
(2m away from light source)

Normal vertical mounting



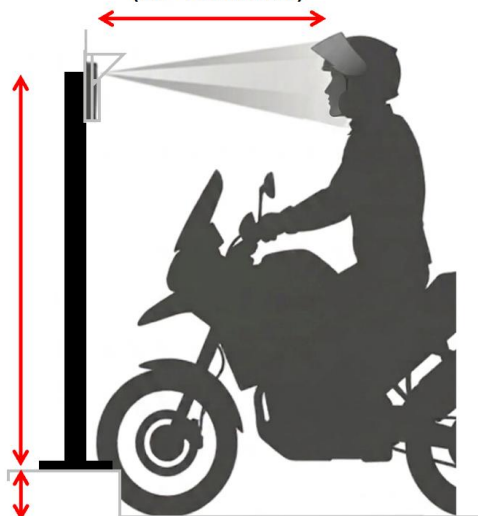
Recommended Installation Height 145cm~160cm

*** Installation height based on average height**

145cm

Mounting on pole

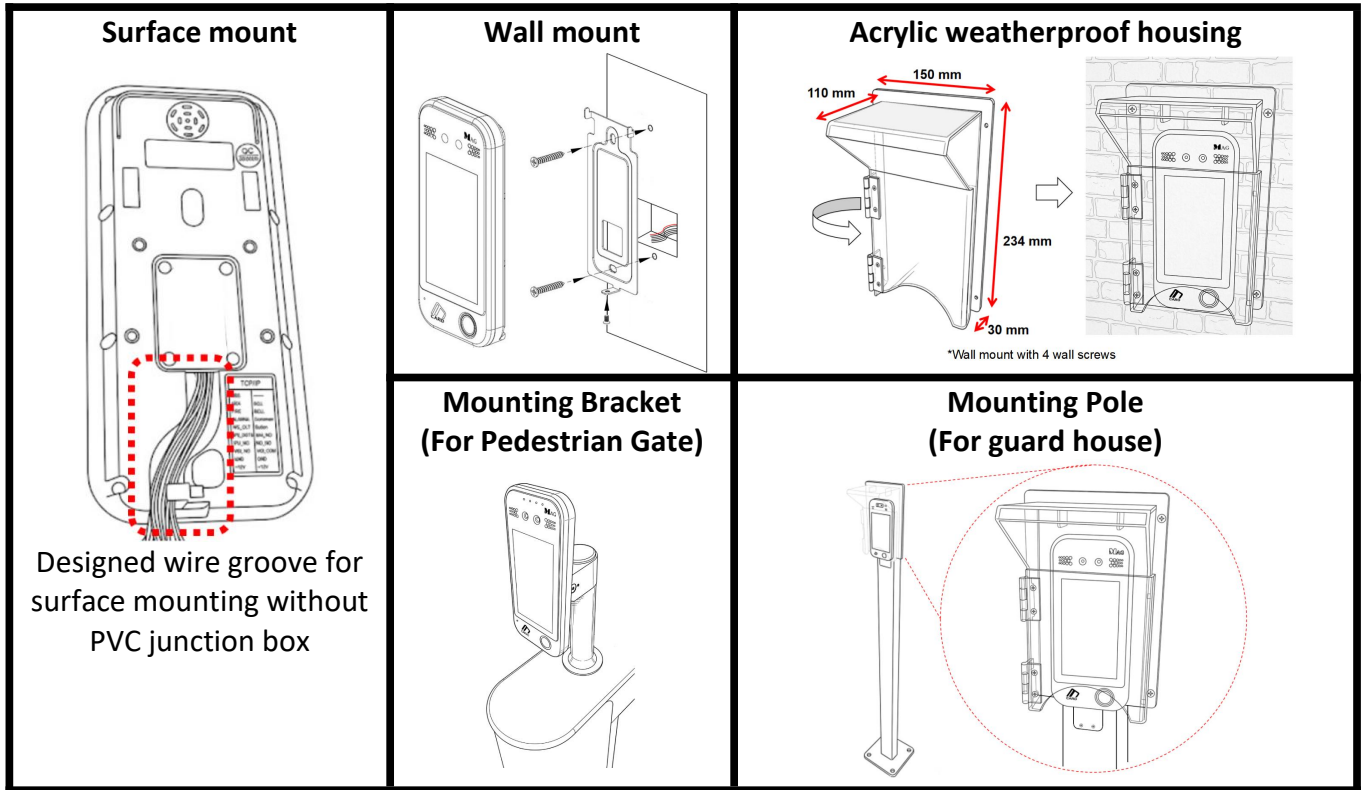
Face Recognition Distance
(0.5 - 2.5 meters)



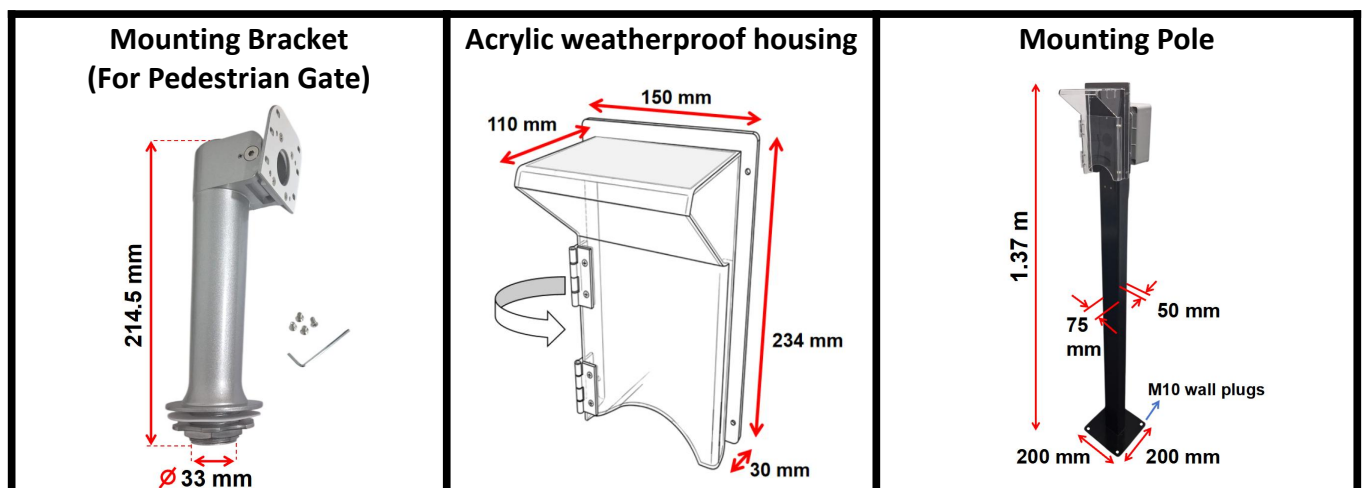
* Height of camera of face
reader installed on pole will
be around 1.3 meters away
from pole base plate

Typical kerb height will be around
100-200mm (4-8 inches)

Installation Method



Add-on Accessories



*Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors.

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