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SPECIFICATION

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ID: 2038
Name: Michael

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RFID

**FR330**

**MAG Face Recognition Reader With Fingerprint**

**SPECIFICATION**

# FR330 MAG Face Recognition Reader With Fingerprint

## Description

MAG FR330 face recognition reader is a dynamic face recognition reader built with advanced face tracking algorithm for faster and more accurate face detection. The modern, compact and slim design with premium finishes and full HD display make it to look good in any commercial premises either for door access or pedestrian access. FR330 is support intelligent mask detection to alert and deny access for people without mask.

It is suitable for use in pedestrian gate or door access for office building, school, hospital, airport, condominium, factory, etc.
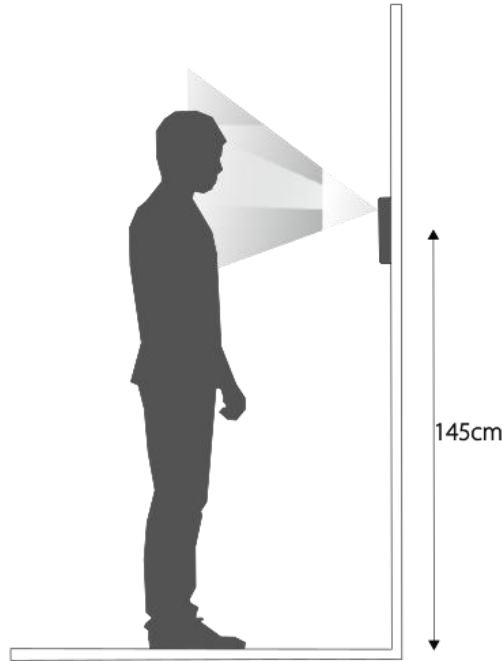
**Features:**

**1. Extra wide lighting (EWL).** Even under high contrast or lower lighting conditions, it is still able to scan your face accurately.

**2. 5 in 1 Face recognition reader.** FR330 offer maximum flexibility with 5 access mode which is face recognition, card, pin, QR code and fingerprint.

**3. High user capacity up to 50,000 face.** With the high user capacity, it is ideal for usage in any big office, factory, school or any commercial building.

**4. High fingerprint capacity up to 100,000 templates.** With the high fingerprint capacity, each user are able to enroll 2 fingerprint and it is ideal for usage in any big office, factory, school or any commercial building.

**5. Mask detection.** Reader can differentiate if the face is with or without the mask. FR330 can be set to deny access when the face is scanned without a mask.

**6. Automatic Adaptive Distance Reading (AADR) technology.** Automatically adjust detection area to accurately capture all critical biometric point even though when the face is moving. This is to ensure accurate recognition.

**7. Automatic Depth Measuring (ADM) technology.** Able to detect face at front and back, but priority on the face at front. This is to minimize front-gating where an authorized people trying to cheat for access.

**8. Dual camera featuring IRSense and ColorSense technology.** Both technology work hand-in-hand to reject displayed face photo or video under low lighting environment. Additional LED light will be automatically illuminated in order to recognize face in dark environment condition.

**9. Adjustable detection range.** If temperature scanning is disabled, the detection range can be adjusted up to 3 meters to cater different people traffic flow pattern at site. Temperature scanning work best at 0.5 meters.

**10. Sleep mode function.** Reader will hibernate if there is no face detection after a prefix time. This help the reader display to be more long lasting. For crowded environment, you can set to wake up the reader only by touching the LCD screen instead of the default wake up upon scanning any face that passes by.

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## Technical Parameters

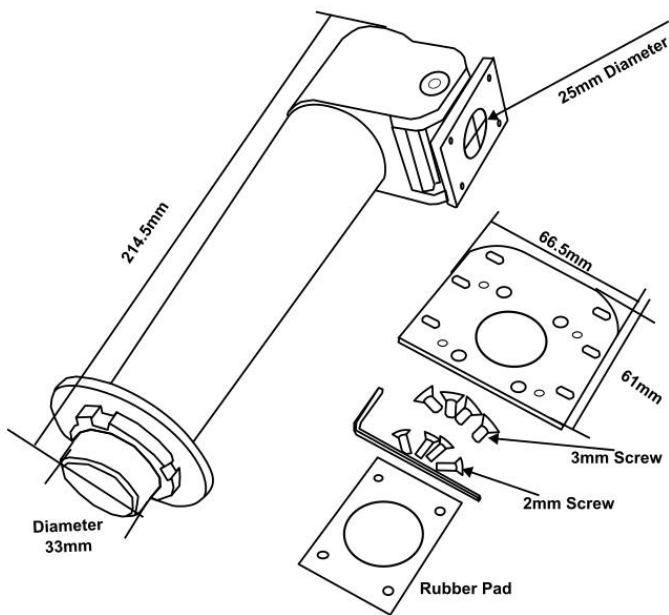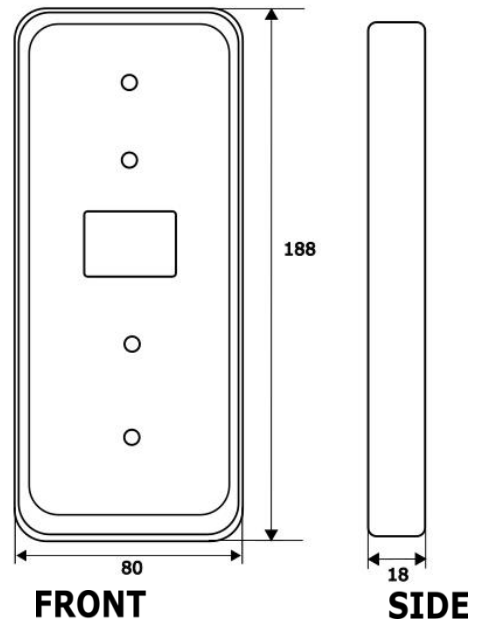| | |
|---|---|
| User Capacity | 50000 ( 50k face, 50k card and 50k pin ) |
| Fingerprint capacity | 100,000 ( 1 user 2 fingerprint ) |
| Event Record Capacity | 500,000 |
| Access Mode | Face , Card, PIN, fingerprint or QR code.<br>Face + PIN,  Face + Card,  Face + QR code,<br>Face + ( PIN/Card/QR ),  PIN + Card,  PIN + QR,<br>Face + Fingerprint,  Fingerprint + Card,  Fingerprint + QR,<br>Fingerprint + PIN. |
| Face Recognition Mode | 1:N |
| Validation Display | Name and avatar (enrolled picture as thumbnail). |
| Real Time Face Detection | < 0.2sec, single face or multi face (5 faces) under normal sufficient lighting condition |
| Intelligent Function | Live person identification detection |
| Facial Scanning Range | Without live movement detection: 0.5-3m (normal sufficient lighting condition) |
| | With live movement detection: 0.5-1.5m ( normal sufficient lighting condition) |
| Dual Camera | EWL ColorSense Camera and IRSense Camera |
| Dual Light | Smart LED light and infrared light |
| Display Screen | 5 inch Full HD Capacitive touch screen |
| Mask Detection | Can disable, enable or set as compulsory.<br>Best detection with normal bright color face mask. Accuracy of recognition will decrease with fancy or black color face mask. |
| Operating System | LINUX System |
| False rejection rate (FRR) | <= 0.1% ( with actual face without face mask ) |
| False approval rate (FAR) | <= 0.001% ( with actual face without face mask ) |
| Relay Output | Lock Relay dry contact output (N.O, N.C and COM)<br>Alarm Relay transistor output ( -12V) |
| Relay Input | Door Sensor |
| USB | Yes,for updating firmware, download and upload data (standalone) |
| Push Button Input | Yes |
| Communication Interface | TCPIP or WIFI (stability is dependent on wireless signal quality) |
| External Wiegand Port | Yes, WG26/34 Output/Input |
| Power Supply | DC 12V, 2A |
| Working Temperature | $-15^\circ$C to $45^\circ$C |
| Casing Material | Aluminium Alloy |
| Dimension (L x W x H) | 188mm x 80mm x 20mm |
| Operating Environment | Indoor or under shade |

## Recommended Height Installation



145cm

**Recommended Installation**

## MAG Face recognition mounting bracket
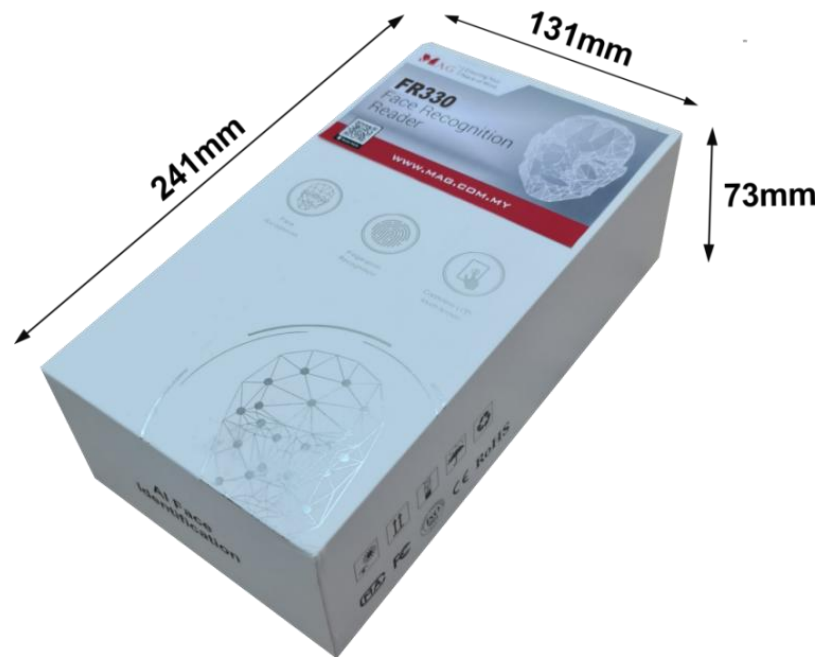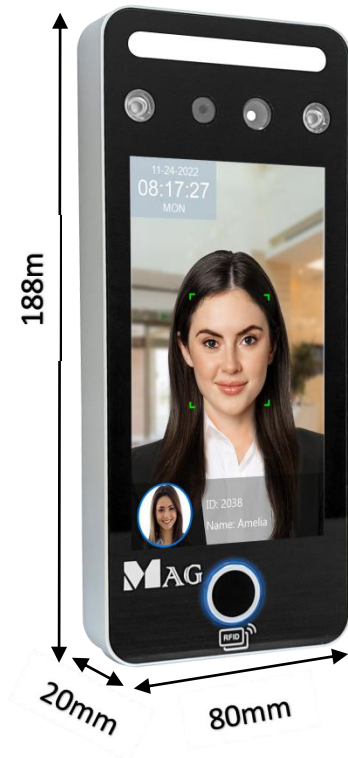
### For Padestrian Bracket



25mm Diameter

214.5mm

66.5mm

61mm

3mm Screw

2mm Screw

Diameter 33mm

Rubber Pad

### For Wall Mount Bracket



188

80

18

**FRONT**

**SIDE**

## Dimension