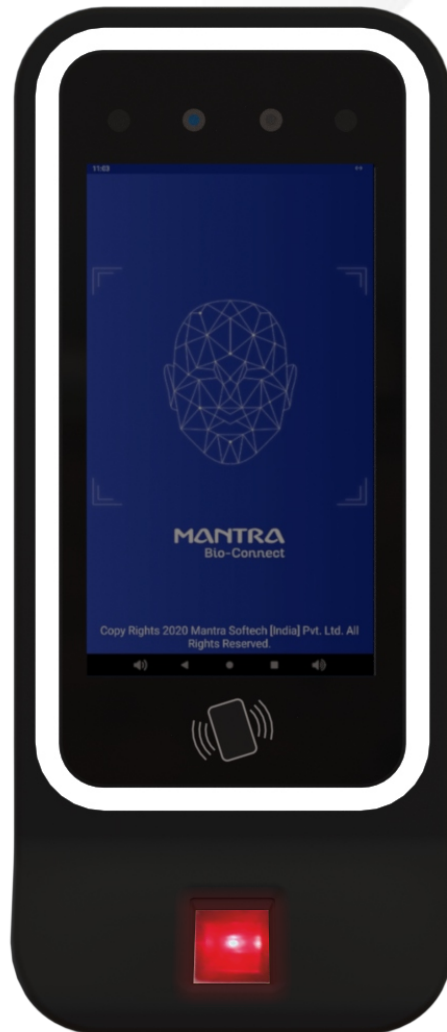# MANTRA

BiONIC FP6

Experience the Ultimate in Security
Through Facial & Fingerprint Technology

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions.
We offer a Wide Range of Products in Biometric and RFID Industry.

- IR LED
- IR Camera
- RGB Camera
- IR LED
- Display
- Contactless Card Reader
- Fingerprint Scanner

Introduction

This industrial multi-modal terminal is built with face & optical finger sensors to serve industrial use cases powered by the most advanced facial and finger matching engine. The terminal can serve multiple industrial use cases such as visitors, attendance, access control and canteen management.
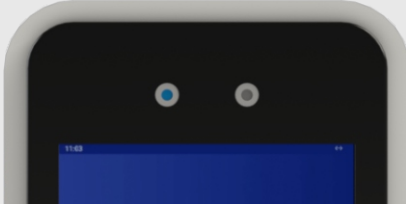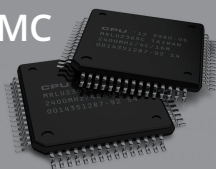
Main Features

IP54

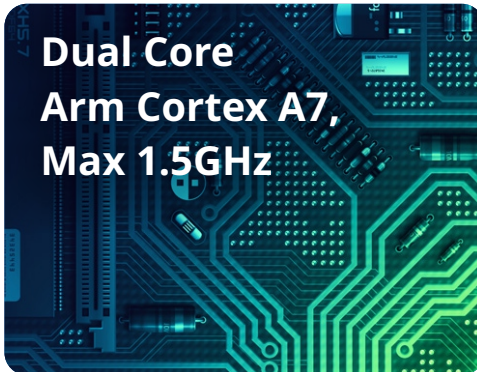**Dual RGB and Near Infrared Camera**

2 Million WDR Pixel Resolution

1GB DDR4 + 8GB EMMC
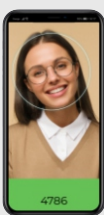
Fingerprint Scanner

Dual Core Arm Cortex A7, Max 1.5GHz

Supports ISO14443 Mifare Classic

MIFARE card

Liveness Check Passed

4786

5 Inch, Vertical Screen H1280 * W720 Resolution
Multi Point Capacitive Touch Screen

H
W

MANTRA

Specification

Hardware & System

|	
CPU	: Dual Core Arm Cortex A7, Max 1.5GHz
NPU	: 1.2T FLOPS
Memory (RAM + Storage)	: 1GB DDR4 + 8GB EMMC

Display & Touch

Display	: 5 Inch, Vertical Screen 720*1280 Resolution Flash LED with Variable Intensity
Touch	: Multi Point Capacitive Touch Screen

Binocular Wide Dynamic Camera (RGB + IR)

Camera Type	: Dual RGB and Near Infrared Camera
Pixel Resolution	: 2 Million WDR
Recognition Time	: <200 ms
Pattern Recognition	: Local Identification, Support Offline, Support Mask Identification
Recognition Distance	: Upto 120 cm
Accuracy User	: >99.8%
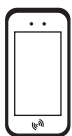
Interface

Network Module	: 1x RJ45
Wi-Fi	: Supported
Audio	: Support 2W/4Ω
RS485	: 1 x RS485
Wiegand Interface	: 1 x Output
Relay Interface	: 1 x Relay
Power Jack	: 12V DC, 2A
GPIO's	: 2 x GPIO
RTC	: Supported

Smart Card Reader

Contactless Card (Optional)	: Supports ISO14443 Mifare Classic

MANTRA

Specification

Fingerprint Sensor

Fingerprint Type	: Scratch Free Optical Sensor
Fingerprint Image	: 316 x 354 Pixels (16 mm x 18 mm)
Image Specs	: 500DPI, 8 Bit Grayscale
Certifications	: CE, FCC, RoHS, STQC, PIV, IEC60950, IS13252 Part

Functions/Features

Face Detection	: Support multiple people detection and tracking
Face & Finger Database Capacity	: 2K/4K & 6K/12K
1:N Face Recognition	: Supported (2K, 6K)
1:1 Face Recognition	: Supported
Stranger Detection	: Supported
Face Recognition Accuracy	: Normal Light Condition > 99.8%
	External Light Condition > 95%
Liveness Detection	: Supported

Software

Operating System	: Linux OS, Kernel Ver. 4.19.111
Log Capacity	: 1M
Enrollment	: Supported

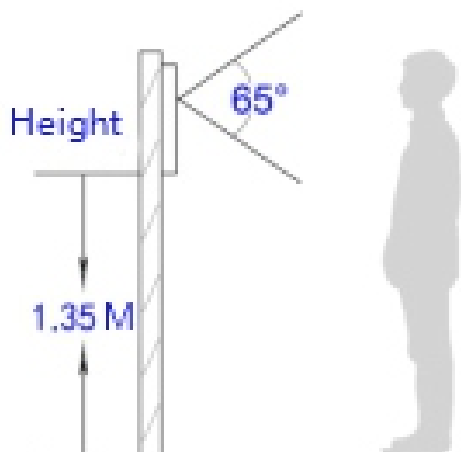### General Parameter

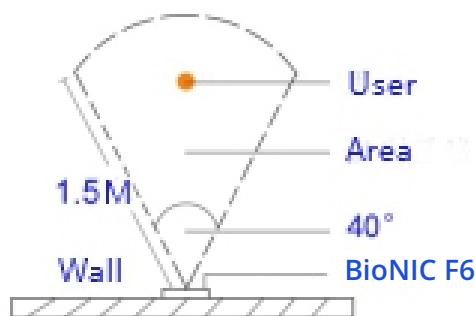|	
Protection Grade	: IP54
Operating Temperature	: − 10℃~60℃
Operating Humidity	: 90% RH (Non-Condensing)
Dimensions(L X W X H)	: 225mm*97.3mm*73.5mm
Weight	: ~ 500 grams
Mounting Type	: Wall Mount & Turnstile Mount

Certifications

Certifications	: BIS, RoHS, IP54

Vertical Wide Angle

Height
65°
1.35 M

Horizontal Wide Angle

User
Area
1.5M
40°
Wall
BioNIC F6

MANTRA
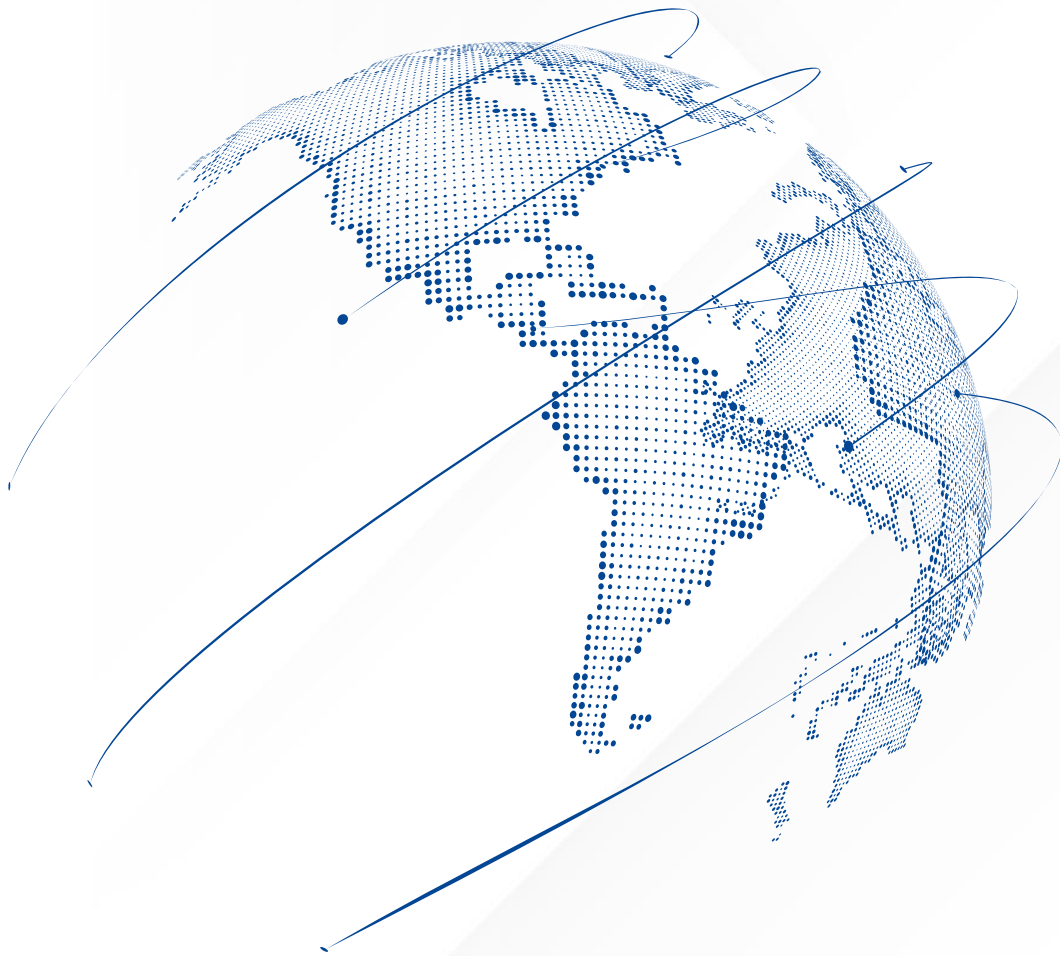
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MANTRA

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