MANTRA

BioNIC FPX

Face & Fingerprint Recognition System

Redefining the Access Control system

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.

Introduction

This industrial multi-modal terminal is designed with face and optical finger sensors to serve industrial use cases and is powered by the most advanced facial and finger matching engine along with Face, Finger it also supports PIN based verification. The terminal can handle a variety of industrial USE CASES, including visitor management, attendance, access control.

Mode of Authentication

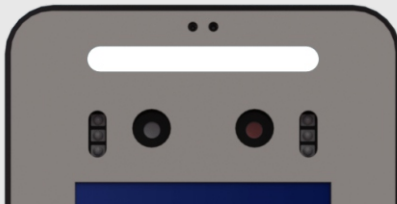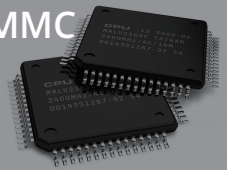| PIN	Finger Print	PIN + Fingerprint	Facial	PIN + Finger + Face
****	🖐	**** + 🖐	😊	**** + 🖐 + 😊

Main Features

IP54

Dual RGB and Near Infrared Camera
2 Million WDR Pixel Resolution

2GB RAM + 16GB EMMC

Fingeprint Scanner

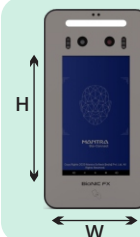**2.2GHz Quad core ARM Cortex-A73**

ISO14443 Type A/B Cards, Mifare Classic / Desfire

MIFARE card
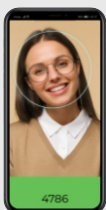
Liveness Check **Passed**
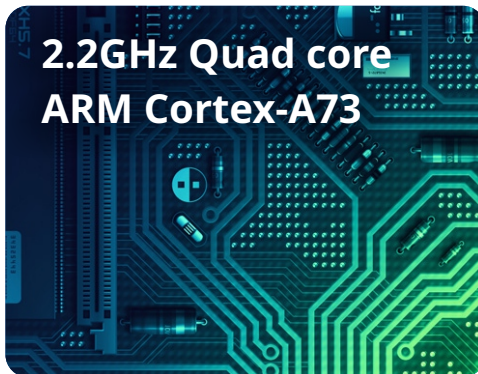
5 Inch, Vertical Screen H1080 * W1920 Resolution
Multi point capacitive touch screen with tuffen glass

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FACE & FINGERPRINT RECOGNITION SYSTEM

Specification

Hardware & System

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CPU	: 2.2GHz Quad core ARM Cortex-A73 and 1.8GHz dual core Cortex-A53
GPU	: ARM G52 MP4 GPU
Memory (RAM + Storage)	: 2GB + 16GB

Display & Touch

Display	: 5 Inch, 1080X1920 Resolution, Full view IPS TFT Display
Touch	: Multi point capacitive touch screen with tuffen glass

Binocular Wide Dynamic Camera (RGB + IR)

Camera Type	: Dual RGB and Near Infrared Camera
Pixel Resolution	: 2M (1920 x1080)
Frame Rate	: 30 FPS
Minimum Illumination	: = 0.1 LUX
Dynamic Range	: = 45dB Linear & = 100 dB HDR supported for various light environment
Focus Distance	: 30 -150 cm
White Balance	: Auto
Photo Flood Light	: Visible & IR dual Flood Light
Support	: Live Face Detection
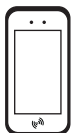
Interface

Network Module	: 1x RJ45, 10M/100M
Wi-Fi / BT	: Supported
Audio	: Supported
HDMI	: 1 X HDMI
RS232	: 1 x RS232
RS485	: 1 x RS485
Wiegand Interface	: 1 x Output ; 1 x Input
Relay Interface	: 2 x Relay (NC, NO, COM)
Power Jack	: DC 5V/3A
GPIO's	: 5 X GPIO
RTC	: Supported
GPRS/3G/4G (Optional)	: Supported

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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

Smart Card Reader

Contactless Card (Optional)	: ISO14443 Type A/B Cards, Mifare Classic / Desfire

Functions/Features

Face Detection	: Support multiple people detection and tracking
Face Database Capacity	: 10000 / 50000
1:N Face Recognition	: Supported (5K, 10K, 20K, 50K)
1:1 Face-matching	: Supported
Stranger Detection	: Supported
Face Recognition Accuracy	: Normal Light Condition > 99.9%
	External Light Condition > 95%
Liveness Detection	: Supported
Recognition Speed	: 300 ms

Software

Operating System	: Customized Android
SDK	: Appropriate SDK for all accessories to be provided for Android

General Parameter

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Casing	: Light weighted oxidised aluminium alloy back cover for heat dissipation with ABS front cover
Protection Grade	: Dust Proof
Operating Temperature	: -10℃~60℃
Storage Temperature	: -20℃~60℃
Operating Humidity	: 10%-90% RH (Non-Condensing)
Dimensions	: 185.0 x 97.0 x 30.5 mm
Weight	: Approx 800 gm
Mounting Type	: Wall mount, Turns Tile Mount

Certifications

Certifications	: CE, RoHS, BIS

Vertical Wide Angle

Height

65°

1.35 M

Horizontal Wide Angle

User

Area

1.5 M

BioNIC FX

40°

Wall

Face X1
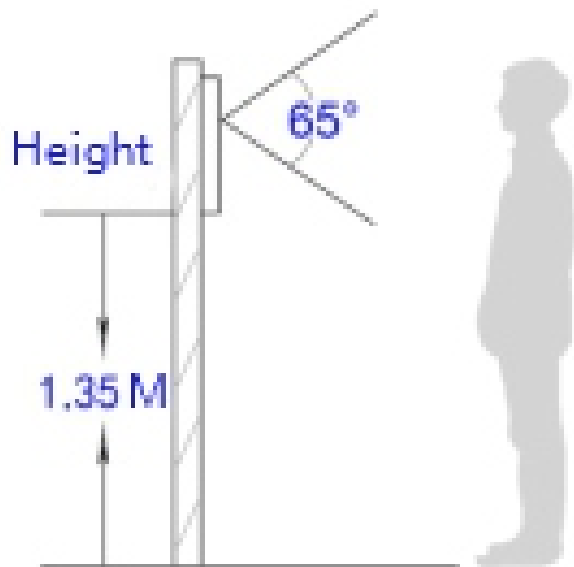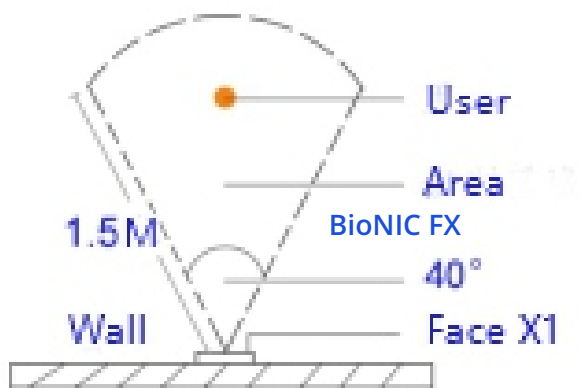
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