

# MANTRA

## IPAS-AI

Integrated Personal Auth and Analyzing System  
AI Enabled with Integrated EDHMS

Type : 1 Reader Terminal

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.



**SOBAR  
SECURE**





## Introduction

Enhance security and compliance with our cutting-edge breath analyzer, integrated with advanced facial recognition technology. Designed for identity-based access control systems, this device offers accurate alcohol level detection and secure identity verification. Ideal for high-security areas, it ensures only authorized, sober personnel gain access, reducing risk and promoting safety. Streamline your security protocol with this reliable, innovative solution.

## Main Features



**IP54**

### Dual RGB and Near Infrared Camera

2 Million WDR Pixel Resolution



**2GB RAM + 16GB eMMC**



### Certifications



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



**Breath Analyzer**



**Liveness Check Passed**



**5 Inch, Vertical Screen**  
H 375 \* W127  
**Resolution**

Multi point capacitive touch screen with tuffen glass



IPAS-AI

PRODUCT MODEL	PRODUCT NAME	PRODUCT CODE	DESCRIPTION
IPAS-AI	Type:1 Reader Terminal	BA0512X11	5"/Face/Breath Analyzer/Integrated EDHMS

## Packing List

Network Cable	: 30Mtr
Power Cable	: 30Mtr
Power Supply	: 1X Power Adaptor
EDHMS Application	: Built-in With Device
Installation	: Onsite Installation included
Testing and Commissioning	: Included

## Specification



### Hardware & System

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

# Specification



## 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 12V/2A
Input/Output	: 3 X Input (IN0- Egress, IN1- Emergency, IN2- Fire); 2 X Output (Out0- Rev, Out1-Rev)
RTC	: Supported
2G/3G/4G	: Supported (Optional)



## Functions/Features

Face Detection	: Support multiple people detection and tracking
Face Database Capacity	: 20000 / 50000
1:N Face Recognition	: Supported (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

Application	: Integrated EDHMS Application (Edge Devices Health Monitoring System)
Operating System	: Managed Android 9



## Breath Analyzer

Accuracy	: +/- 0.005%BAC at 0.100%BAC
Sensor	: Replaceable fuel cell type alcohol sensor
Mouthpiece	: No need to use
Warm up time	: 3 seconds ~ 4 minutes
Response time	: Within 3 seconds at 0.00%BAC Within 10 seconds at 0.10%BAC



# Specification



## General Parameter

Casing	: Stainless steel bottom plate with ABS top enclosure
Protection grade	: Dust Proof
Operating Temperature	: - 10℃~60℃
Storage Temperature	: - 20℃~60℃
Operating Humidity	: 10%-90% RH (Non-Condensing)
Dimensions	: 375.0 x 127.0 x 132.0 mm
Weight	: 2000g ~ 2200g
Mounting type	: Wall Mount
Certifications	: CE, RoHS, BIS, IP54, IK00

# MANTRA

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**MANTRA**

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