

# EPIDEMIC PREVENTION SYSTEM THERMOSCAN

# FOREWORD

In such a **critical time** as the present, the detection of people who may present with feverish symptoms, especially in places with high attendance, is crucial to further avoid the spread of the virus that has hit the whole world, causing numerous victims, whose contrast has so drastically conditioned the daily life of many people.

One of the **useful ways to contain the infection is the timely identification of those affected**; since the infected in most cases presents with high fever, this precaution is adopted by detecting the body temperature.

In this context, **MIXA** is offering “**System Thermoscan**”, a device for instantaneous reading, without contact, of body temperature.

The device **does not require the presence of an operator** and can be integrated with the access gates, to allow or automatically inhibit the passage of personnel or users.

**System Thermoscan** is the ideal solution for companies, retail outlets and public spaces subject to high numbers of people.

# THE MIXA SOLUTION

**System Thermoscan** is an intelligent kiosk for **instantaneous body temperature measurement**.

The **system uses digital infrared thermography to instantly detect body temperature**.

To activate the scan, you do not need to press any command, the user must simply approach the device by framing his image on the display.

**In case of excessive temperature, the system signals the user and control personnel to detect an anomalous value.**



# MASK FUNCTION

**The system is able to recognize whether the user wears the protective mask** (configurable) or not.

If there is an obligation, the subject is invited to wear it before proceeding.





# MAIN FEATURES

**System Thermoscan** has the following characteristics

- Infrared technology for thermal images
- Immediate response
- Measurement accuracy ( $\pm 0.4$  ° Celsius)
- Alert for the temperature beyond the set threshold
- Quick installation
- Measurement accuracy even wearing face masks



# TECHNICAL SPECIFICATIONS

## Basic Parameter

Model No.	MIXA-TS-1
CPU	Hi3516DV300
DDR	4Gb
Flash	8GB
Display Size	7 inch
Display Resolution	800*1280
Display Type	IPS
Sensor	SONY Starvis 1/2.8 " Progressive scan CMOS
Minimum illumination	0.01Lux@ (F1.2,AGC ON)
Shutter	1/80s to 1/100,00s
camera interface	M12 thread 6mm Fix focus (customize as per scenario)
Parameters of the day and night	Self Adaptive
Wide dynamic state	Support
Digital noise reduction	Self adjustable

## Coding Standards

Video Standards	H.264
Bit Rate	1024Kbps~4Mbps

## Video

Coding Format	H.264
Video Size	1920(H)*1080(V) - 1280(H)*720(V) - 640(H)*360(V)
Frame rate	25fps
Auxiliary stream	Support: 1280(H)*720(V) - 640(H)*360(V)
Video Settings	Exposure (Shutter) Gain - Contrast - Saturation degree Light - Adjustable Face exposure compensation
Video superposition	Time, point location name
Backlight compensation	Support

## Snapshot Function

Picture Format	Adopt JPEG Coding
Snapshot Result	Panoramic image, local close-up image (comparison success, uncomparison, comparison failure, composite image)
Picture Size	1920*1080 (Panoramic view); Local close-up image according to the actual picture proportion

## Intelligent Functions

Recognition Mode	Offline dynamic face recognition
Recognition Content	Face, gender, age
Recognition Type	1: N, 1:1
Living body detection	Support
Face Database	20000
Recognition Rate	≥99%
Recognition speed	≤80ms
Recognition Distance	1.0-3.0m (Replace camera for longer or shorter distance)
Face Database Dispatch	Single picture, batch picture, real-time snapshot picture import

## Network

Protocol supported	ONVIF, TCP/IP, HTTP, DNS, NTP, FTP, Serial communication protocol,
Storage	Wiegand protocol, construction site real name system Built-in about 5GB of local storage and offline transmission
Common functions	Heartbeat, password protection calibration



**Interface**

Communication Interface	1 RJ45 10M/100M adaptive Ethernet port
Assistant Communication	1 RS-485 - 1 USB2.0
Display Output	1 way MIPI_DSI HD video output
Trigger input	2 way external triggered inputs that can be configured as Wiegand inputs
Trigger Output	2 - way switch output, which can be configured as Wiegand output
Audio Output	2 way 1W speaker interface

**Working Environment**

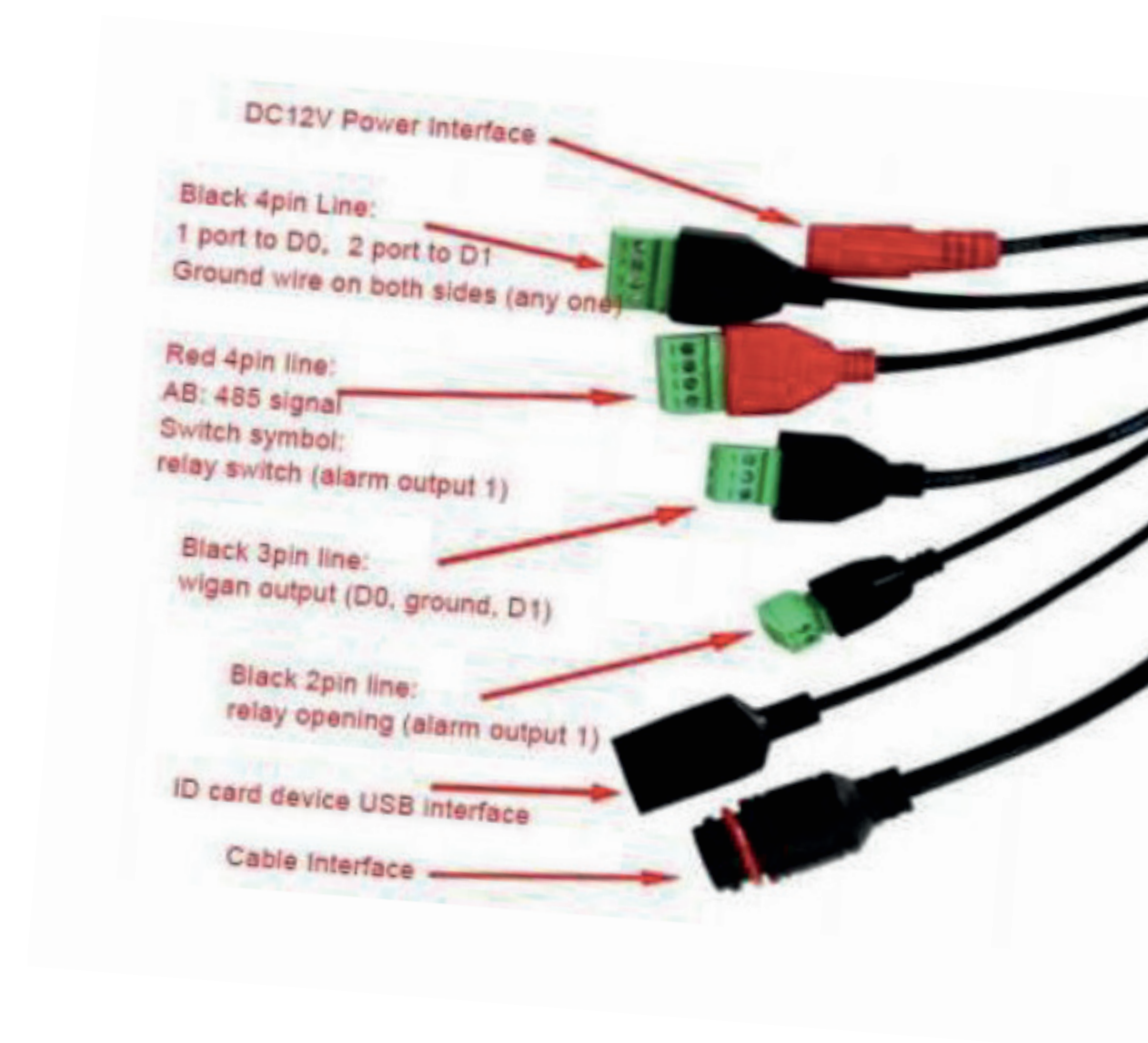
Power Supply	DC 12V 2A
Power Consumption	≤8W
Working Temperature	-30°C ~ +70°C
Working Humidity	20%90%
Working Environment	Indoor
Size (mm)	Refer to product size
Weight	About 400g

**Temperature Measurement**

Sensor interface	485 interface
Sensor Voltage	3Vpower supply
Error	± 0.4° Celsius
Voice Broadcast	Support; Abnormal temperature alarm
Detecting Distance	0.4M---0.6M

# CABLING

The system provides for interfacing through the following connectors



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