MAP IR3

Overview

Marakeb Technologies is a leading integrator of proven pandemic control systems that are used to contain the spread of viruses such as COVID-19 through intelligent analyses and processing in real-time. Due to the pandemic nature of the virus, the utilization of these systems enables the identification and tracking of feverish people in areas with large human traffic up to 300 people per minute.

The autonomous system automatically adjusts and adapts to the surrounding ambient temperature without any human intervention. A built-in sophisticated detection algorithm accurately identifies febrile subjects, issues audible alerts upon detection, and auto-tracks to identify the subject. An intuitive dual display provides easy target identification, simplifies operation, and minimizes handling. With continuous video-recording option, operators can use the recorded videos to run post-screening data reports.

Equipped with a dual-thermal camera coupled with intelligent tracking UI provides an essential security solution for any modern organization seeking to safeguard human assets and sustain business operations during a pandemic outbreak. The powerful system can be mounted on walls or ceilings that can scan wider areas without long waiting lines risking further contamination.

Applications

- Airports
- Schools
- Nurseries
- Hospitals
- Government Facilities
- Public Events
- Public Transport
- Buildings
- Malls

Features

- Non-contact rapid screening
- Large area detection (300 ppm)
- Multi-point temp. measurement
- Cross-infection Avoidance
- Automatic alarm capture
- Facial recognition capture
- Temp measurement < +-0.3C
- Continuous video recording
- Rapid deployment

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Thermal Infrared Temperature Monitoring

The importance of detecting potential victims of infectious or contagious diseases cannot be over-emphasized. Screening people in high-traffic areas and checking them for simple fevers such as colds or influenza or something more serious needs a quick and effective system such as that provided by IR3.
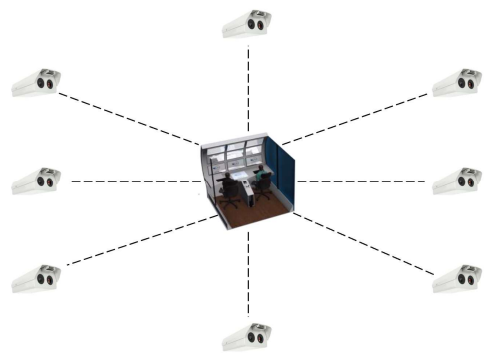
The IR3 is used to scan high traffic areas for feverish symptoms and identify and track the subjects. Any individual showing an abnormal temperature stands out from the crowd and can be automatically identified, tracked, and an alert sent to medical assurance team at the centralized command center for further inspection.

Centralized Command Station

Marakeb Technologies designs and integrates a fully centralized station to monitor each of the installed pandemic control systems located around a specific area like hospitals, airports, and more.

Real-time video and audible alerts are routed from each of the installed systems back to the command station providing the operators with full situational awareness of their operations.

This networking system enables operators to identify and track any high-risk individuals and to alert response teams to intercept and carry out further processing.

Technical Specifications

Visible Light	
Sensor Type	1/1.8" CMOS 200W
Resolution	1920 x 1080
Video Encoding	H.264/H.265
Frame Rate	1~30fps adjustable
Focal Length	3.6~10mm electric adjustable
Thermal Imaging	
Sensor Type	LWIR uncooled FPA
Resolution	384 x 288
Pixel Size	17 micrometers
NETD	<50ml@300K, f1.0
Wave Range	8-14 micrometers
Non-uniform Correction	Shuttle
Lens	13mm
General	
Measurement Range	+26C ~ +46C
Accuracy	+-0.3 C
Distance	< 8 meters
Face Detection	Available
Face Recognition	Available
Mask Wearing Detection	Available
Internet	10/100m Ethernet, RJ45 Female Interface
Power	12V DC, DC5.5*2.1 Female Interface
Power Consumption	<10W
Operating Temperature	0C ~ +40C
Weight	2.4 kg
Size	365 mm x 216 mm x 138 mm

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