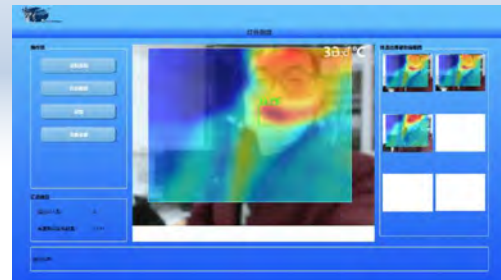# EI-MLT2000A   High Sensitivity Temperature Measuring Walkthrough Metal Detector (Standard)

Product Introduction

EI-MLT2000A High Sensitivity Temperature Measuring Walkthrough Metal Detector，Based on the traditional metal detection, a thermal imaging (non-contact method) is used to initially detect the surface temperature of the human body to find out individuals with abnormal temperature. After finding abnormal temperature targets, professional temperature measurement is performed to effectively control the source of infection.Example: 100 people pass the screening and find 20-30 targets with abnormal temperature, and then use professional methods to measure and confirm, which can effectively reduce the testing workload and improve efficiency.

Product Features

◆ Temperature Screening by Thermal Imaging

◆ High detection accuracy, detecting people with abnormal body temperature

◆ Preset temperature threshold alarm

◆ Designed for crowded places to meet the needs of fast customs clearance

◆ Can be divided into up to 24 detection areas, each area sensitivity can be individually set up to 300 sensitivity calibration

Application

◆ Hospital

◆ Customs

◆ Indoor public places

◆ School

◆ Highway

◆ Station

◆ Venues

Thermal Imaging Technical Indicators

- Infrared detector type.............. Uncooled focal plane
- Infrared pixels................ 160 X 120
- Temperature measurement accuracy............ ± 0.5℃
- Temperature measurement range............... 30 - 45℃
- Cell size........................... 25 μm
- Frame rate.................................. 15Hz

- Lens focal length........................... 6.5mm   8.5mm   2.9mm
- Field of View................................ 36.4° x 27.2°   26.8° x 21.1°   85.5° x 61.6°
- Angular resolution.................... 3.8mrad   2.9mrad   8.6mrad
- Focusing method...........................Manual focus or fixed focus

Technical Indicators of Security Doors

- Detection sensitivity........................ 24-spot detection technology and high-brightness LED alarm location indication to accurately locate hidden contraband areas
- Sensitivity level..................................Up to 300 levels of overall adjustable sensitivity, each independent zone has 300 levels of adjustable sensitivity
- Detection location...........................1-24 detection areas, the sensitivity distribution has no dead zone and is more uniform, the sensitivity of each area can be set independently from 0 to 300
- Frequency setting........................... 100 selectable operating frequency bands
- Audible alarm.....................................20 levels adjustable, 16 adjustable tones
- Display..........................Color LCD display, Chinese and English selection menu, real-time display of background environmental interference signals
- Work mode preset...............Built-in 30 safety inspection standard programs, all detection program parameters can be set and modified at any time
- Operation authorization........................... Password protection allows only authorized personnel to operate
- Passed.. 100 person-times / min
- Counting function...........................Equipped with intelligent passenger flow and alarm counter, it can automatically display and record the number of alarms and the number of people entering and leaving in real time. It can display and store the maximum count value of 100,000.
- Energy saving function........................... Within 5 minutes, the system will automatically enter the power saving mode when there is no detection, and it will automatically wake up when the objects pass through.
- Surrounding environment interference monitoring............ Adopt DSP digital signal processing technology to automatically detect environmental interference and resist electromagnetic and mechanical interference; no periodic calibration is required to prevent false alarms caused by vibration and shaking of security doors
- Anti-interference between products....................Multiple devices work side by side without interference when 50cm next to each other
- Diagnostic function...........................Power-on self-diagnosis, fault display, all control information and settings can be operated on the selection menu and control panel
- Built-in program.............................. Built-in computer programming controller, Chinese and English program selection and modular structure
- Safety..Harmless to pacemaker wearers, pregnant women, and magnetic media

Installation parameters

- Size........................... 2310mm(H)*820mm(W)*580mm(D)
- Tunnel size........................... 2000mm(H)*700mm(W)*550mm(D)
- Weight..................................... about65KG

- Power supply...............Using external power adapterAC100-240V/50-60HZ
- Power consumption.................................... < 15W
- Working environment............................ -20℃~+50℃

Q&A

Q：What are the effects of thermal imaging human body temperature measurement?

A：Any object whose temperature is above absolute zero (-273.15 ° C) is constantly emitting infrared radiation (thermal radiation). Infrared radiation is an electromagnetic wave with a wavelength range of 0.7um ~ 1000um, which is invisible to the naked eye, and the wavelength of external radiation is different at different temperatures. After absorbing infrared radiation, the temperature of the heat-sensitive material will rise, and the thermal imaging camera then calculates the corresponding temperature information according to the corresponding temperature rise. The temperature of a person's face will change due to the influence of sweat or wind. Therefore, the thermal imaging camera measures the temperature by detecting the heat radiation on the surface of the person. The temperature measurement results will fluctuate. In this case, it is recommended to repeat the measurement. For retesting, it is recommended to use an ear thermometer or a mercury thermometer to measure the temperature.

Safety Standard

- Meets national and international standards for electrical safety requirements
- Comply with national and international standards for electromagnetic compatibility requirements