

<b>Title:</b>	Installation Environment Notice for Temperature Screening Metal Detector Door	<b>Version:</b>	v1.0	<b>Date:</b>	05/06/2020
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## Installation Environment Notice for Temperature Screening Metal Detector Door

### Temperature screening requirements

1. It can only be used indoors, at constant temperature and without wind (including natural wind, air conditioning wind, etc.) and avoid direct sunlight and high temperature interference sources
2. It must be used indoors to ensure that the indoor temperature is 10°C- 35°C. If the temperature range is exceeded, the accuracy of temperature measurement cannot be guaranteed
3. According to the regulations of conch thermal camera, the position of security door must be: The visible light channel has enough illumination, and avoid backlight, reflection, occlusion, etc.
4. Thermal camera warm-up time must exceed 30 minutes
5. When the outdoor personnel enter the room, they need to take off the hats and lift up the bangs. It is recommended to wait for 3-5min then measure the temperature after the surface temperature is stable. (After strenuous exercise, the body surface temperature is unstable, which will cause inaccurate temperature measurement);
6. When measuring the temperature of the human body, a person needs to stand at a distance of 1m from the fixed temperature screening metal detector door, pass one by one, make a short stop, and face facing the camera.

### Metal detection requirements

(if only temperature screening function is used and metal detection is not used, the following instruction can be ignored)

#### 1. Flat and stable ground

The floor should be flat and stable to avoid the sway of the security door due to the movement of personnel or the movement of metal objects after the security door is installed, resulting in unnecessary false alarms

#### 2. Environment requirement

Metal detector door shall not be installed in high temperature and humid environment

#### 3. Power supply requirement

The power supply requires 110V~220V, 50 ~ 60HZ, single-phase three-wire, the power ground wire should be reliable, and the neutral wire is forbidden to replace the ground wire

#### 4. Avoid windy location

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When installing the metal detector door, avoid installing it around the wind as much as possible. Because the door body will swing slightly when the wind blows, it will cause false alarms during the work

## 5. Avoid still metal objects

When installing the metal detector door, it should be at least 50cm away from large metal objects that are stationary or fixed to avoid false alarms during use

## 6. Movable metal objects requirement

Large metal objects that can be moved or fixed should be more than 1 m away from the metal detector door to avoid false alarms during use, especially automatic doors, rolling gates, iron security doors, mesh iron doors, building elevators, etc. The larger the area of large metal objects, the farther the distance between the metal detector door and it

## 7. Electromagnetic radiation and electromagnetic interference

Because the metal detector door uses bilateral transmission and reception technology, any electromagnetic interference source and electromagnetic radiation source should not be close to either side of the security gate, the recommended distance is 1 ~ 2m

Possible electromagnetic radiation source and electromagnetic interference source: Electrical control box, radio frequency equipment, electronic computer and peripheral equipment, video monitor, high-power motor, high-power transformer, AC power line, thyristor control circuit (high-power switching power supply, inverter welding machine), engine, machine with motor, Wires and cables energized in dark wire pipes, fluorescent lamps with old-style electronic ballasts

## 8. Multiple metal detector used side by side

When using multiple metal detector side by side, each metal detector door will affect each other to a certain extent, and the degree of influence is related to the distance between each metal detector door and the selected working frequency; Automatic frequency setting function needed to be configured, and the devices need to be turned on one by one in sequence, the frequency cannot be duplicated. Distance between metal detector doors should be more than 0.5m



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