

Title:	Installation Environment Notice for Temperature Screening Metal Detector Door	Version:	v1.0	Date:	05/06/2020
Product:	Temperature Screening Metal Detector Door			Page:	1 of 3

Installation Environment Notice for Temperature Screening Metal Detector Door

Temperature screening requirements

1. The unit is designed to operate correctly only in an indoor environment and should be located away from any source of wind or draught, either natural or artificial such as air conditioning units. Also avoid direct sunlight and other sources of heat such as radiators or heating vents.
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. Install where there is a sufficient light source for correct operation of the camera but avoid backlight, reflections and occlusion etc.
4. Thermal camera warm-up time must exceed 30 minutes to allow for self-calibration and correct operation
5. A person entering the screening area from an outdoor environment should ideally be allowed to climatise to the indoor conditions for 3-5 minutes before being screened for best results. This is due to the influence of external temperature extremes or physical exercise immediately before screening takes place which could cause inaccurate temperature measurement. Remove hats and lift up forehead hair for an accurate reading of temperature.
6. When measuring the skin surface 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

Title:	Installation Environment Notice for Temperature Screening Metal Detector Door	Version:	v1.0	Date:	05/06/2020
Product:	Temperature Screening Metal Detector Door			Page:	2 of 3

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

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 operation

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 source and the metal detector.

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 needs 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



Title:	Installation Environment Notice for Temperature Screening Metal Detector Door	Version:	v1.0	Date:	05/06/2020
Product:	Temperature Screening Metal Detector Door			Page:	3 of 3

See Far, Go Further
HIKVISION Technical Support