

NUCTECH™ TH1800



Terahertz Imaging Instrument



Introduction

NUCTECH™ TH1800 Terahertz Imaging Instrument (TH1800 later), is a new type of body security scanner developed by NUCTECH. The system conducts passive terahertz imaging technology which adopts the characteristics of terahertz waves penetrating through general clothing to realize a long-distance, non-contact human body inspection. In addition, based on a deep-learning algorithm, TH1800 will automatically mark concealed contraband under clothing or on the human body, including but not limited to metal/non-metallic weapons, smuggled cash, IEDs, liquids, drugs, contraband, etc.

TH1800 can form a high contrast, real-time image by acquiring the terahertz signals emitted from the human body, with no ionizing radiation issue. The inspected people walk through normally and no need to be stationary. TH1800 is equipped with a high-definition optical camera, which can display optical images to assist the operator. The product is safe, highly effective, non-intrusive and concealable.

TH1800 is suitable for personnel security inspection in many places. It can be widely used in customs, airports, rail transit, government agencies, property preservation, hospitals, and other sensitive places for human safety inspection.

Features

- ◆ Passive terahertz imaging technology
- ◆ No ionizing radiation, safe for people
- ◆ Real-time imaging, high throughput
- ◆ Automatic Threat Recognition (ATR)
- ◆ High image quality, Higher frame rate
- ◆ Full body screening, no blind area
- ◆ Long-distance walk-through screening
- ◆ Large field of view, two-aisle check
- ◆ Automatic calibration, easy to operate
- ◆ Optical and terahertz image mapping
- ◆ Covert deployment by roll screen
- ◆ Move easily with caster, plug and play
- ◆ Low power consumption, low noise
- ◆ Modular design, Easy maintenance
- ◆ Privacy protection, passenger-friendly

Certifications

✓CE certifying

Technical Data

General Specification

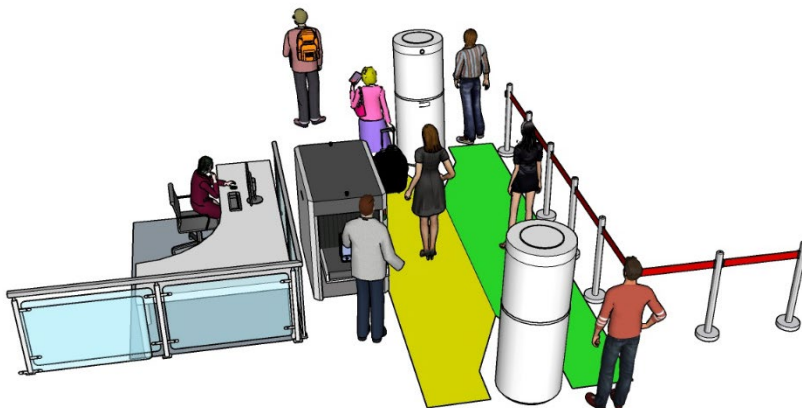
Technical Principle	Passive Terahertz Imaging Technology
Inspection Mode	Non-contact
Inspection Time	Real-time
Frame Rate	12 fps
Scanning Distance	1.5 m to 4 m
Field of View	1.1 m (W) × 2 m (H) @ 2.5 m
Throughput	1,500 pax per hour
ATR	Yes
Privacy Protection	Yes
Detection Capabilities	Metal/non-metal weapons, Liquids, IEDs, Drugs, etc.
Applications	Customs, civil aviation, border, government agencies, prisons, loss and prevention, hospitals, etc.

Functions and Configurations

Monitor	LED screen
Storage Time	≥90 days
Date Storage	>100,000 samples
UPS	Optional

Installation Data

Dimensions	710 mm (D) x 1900 mm (H)
Weight	150 kg
Power	110/220 VAC, 50/60 Hz
Power Supply	300 W
Operating Temperature	0 °C to +40 °C
Other Requirement	It is recommended to use indoors only for better performance.



For more product information, visit www.nuctech.com

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