



TH1800
Terahertz Imaging System

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NUCTECH™ TH1800

Terahertz Imaging System

Introduction

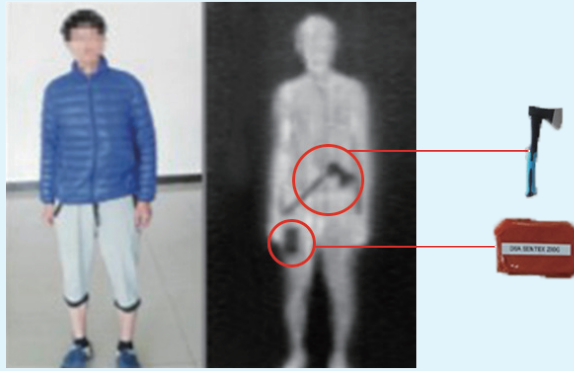
NUCTECH™ TH1800 Terahertz Imaging System is a high-performance, stand-off people screening solution designed and manufactured by NUCTECH. It can detect objects concealed under clothing, including but not limited to: metal/non-metal weapons, IEDs, liquids, narcotics, explosive suicide belts, etc.

NUCTECH™ TH1800 receives the terahertz signal emitted from the human body to form a high contrast, real-time terahertz image with automatic threat detection. High resolution cameras are integrated into the system to assist the operator in the detection of contraband.

NUCTECH™ TH1800 has many applications for the rapid screening of people at airports, customs facilities, rail transportation, schools, government facilities, special events, loss & prevention and other types of checkpoints.

Technical Features

- Passive THz technology**
 Passive submillimeter-wave (THz) imaging technology. No ionizing radiation emitted.
- Real time imaging of people without their knowledge - stealthlike**
 Rapid screening. Can do non-contact body screening without stopping individuals.
- Privacy protection**
 Scanned image does not show detailed body surface features - no privacy issues.
- Superior inspection capability**
 Effective detection of metal/non-metal weapons, IEDs, liquids, narcotics concealed under clothing and suicide belts.
- Large field of view, high throughput**
 Detection distance up to 3 meters, throughput rate more than 1000 person per hour.
- High contrast**
 High sensitivity detector and high performance optical system. Detects concealed object in centimeter level.
- Automatic threat recognition**
 Based on deep learning technique, can automatically locate suspected items.
- Covert and easy deployment**
 Small footprint, plug & play.



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Technical Data

Technical Specifications

Inspection mode	Non-contact
Operating distance	2-3m
Frame rate	100ms
Spatial resolution	2cm
Power supply	220VAC / 10A / 50Hz
Power consumption	300W
System dimensions	750mm (D) x 1900cm (H)
Weight	150kg
Optional	Open framework, able to do customized design, such as integrate facial recognition functions etc.

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DY-EN-20180912

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Printed in CHINA, September 2018.



NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2008)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (GB/T28001-2011)

