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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GA/T 1779-2021

**General technical requirements for passive terahertz imaging
human body security inspection system**

被动式太赫兹成像人体安全检查设备通用技术要求

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" Drafting.

1 Scope

This document specifies the general technical requirements for passive terahertz imaging human safety inspection equipment, and describes the passive terahertz imaging human the packaging, marking, storage and transportation, random documents, and test methods of physical safety inspection equipment have established passive terahertz imaging human safety inspections.

Check the inspection rules of the equipment.

This document is applicable to the design, manufacture, inspection and use of passive terahertz imaging human safety inspection equipment.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 191-2008 Graphical signs for packaging, storage and transportation GB/T 2423.1-2008 Environmental testing of electric and electronic products Part 2: Test method Test A. Low temperature GB/T 2423.2-2008 Environmental testing of electric and electronic products Part 2: Test method Test B. High temperature GB/T 2423.5-2019 Environmental Test Part 2: Test Method Test Ea and Guideline. Impact GB/T 2423.10-2019 Environmental Test Part 2: Test Method Test Fc. Vibration (Sine) GB/T 4208-2017 Enclosure protection grade (IP code) GB 4824-2013 Industrial, scientific and medical (ISM) radio frequency equipment disturbance characteristic limits and measurement methods GB 16796-2009 Safety requirements and test methods for security alarm equipment GB/T 17626.2-2018 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test GB/T 17626.3-2016 Electromagnetic compatibility test and measurement technology Radio frequency electromagnetic field radiation immunity test GB/T 17626.4-2018 Electromagnetic compatibility test and measurement technology Electrical fast transient pulse group immunity test GB/T 17626.5-2019 Electromagnetic compatibility test and measurement technology surge (impact) immunity test GB/T 17626.6-2017 Electromagnetic compatibility test and measurement technology Radio frequency field induced conducted disturbance immunity test GB/T 17626.11-2008 Electromagnetic compatibility test and measurement technology Voltage sag, short-term interruption and voltage change immunity test GB/T 17799.1-2017 General standard for electromagnetic compatibility Immunity in residential, commercial and light industrial environments GB 17799.4-2012 EMC general standard emission in industrial environment

3 Terms and definitions

The following terms and definitions apply to this document.

Passive terahertz imaging human body security inspection system passive terahertz imaging human body security inspection system by collecting the terahertz wave signal radiated by the human body, a terahertz image of the subject is generated, which is used to check the safety of the objects carried on the human body.

Full inspection equipment.