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

GB/T 45284.16-2025

**Information technology - Extensible biometric data interchange
formats - Part 16: Full body image data
(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 for standardization documents" Drafting.

This document is Part 16 of GB/T 45284 "Information technology - Extensible biometric identification data exchange format".

GB/T 45284 has published the following parts.

- Part 1: Framework;
- Part 4: Fingerprint image data;
- Part 5: Face image data;
- Part 6: Iris image data;
- Part 9: Vascular image data;

--- Part 16: Full body image data;

--- Part 17: Gait image sequence data.

This document is equivalent to ISO/IEC 39794-16:2021 "Information technology - Extensible biometric data exchange format Part 1 Part 16: Whole body image data.

The following minimal editorial changes were made to this document.

--- Added notes to 3.4 definitions.

--- The informative reference ISO/IEC 14496-14:2020 replaces ISO/IEC 14496-14:2003.

Introduction

GB/T 45284 "Information Technology Extensible Biometric Identification Data Exchange Format" establishes an extensible biometric identification data exchange format.

It defines the basic rules, common data elements and data structure, and basic testing methods of this data format;

Different biometric recognition modalities are also defined, including data element definitions, data formats, and test methods for extensible data exchange formats of different modalities.

GB/T 45284 is planned to consist of seventeen parts.

--- Part 1: Framework. The purpose is to establish rules, guidelines, common data elements, Common data structures and compliance testing methods.

--- Part 2: Fingerprint detail point data. The purpose is to establish an extensible fingerprint detail point data record exchange format and Compliance test methods.

--- Part 3: Fingerprint data. The purpose is to establish an extensible fingerprint data record exchange format and conform to Sex testing method.

--- Part 4: Fingerprint image data. The purpose is to establish an extensible fingerprint image data record exchange format and conform to Sex testing method.

--- Part 5: Face image data. The purpose is to establish an extensible face image data record exchange format and conformity Sex testing method.

--- Part 6: Iris image data. The purpose is to establish an extensible iris image data record exchange format and conformity Sex testing method.

--- Part 7: Signature/signature time series data. The purpose is to establish an extensible signature/signature data record Interchange formats and conformance testing methods.

--- Part 8: Fingerprint skeleton data. The purpose is to establish an extensible fingerprint skeleton data record exchange format and conform to Sex testing method.

- Part 9: Vascular image data. The purpose is to establish an extensible data record exchange format for vascular image data and Compliance test methods.
- Part 10: Hand shape profile data. The purpose is to establish an extensible data record exchange format for hand shape profile data and Compliance test methods.
- Part 11: Processed signature/signature dynamic data. The purpose is to establish an extensible processed signature/signature dynamic Data record exchange format and compliance test method for dynamic data.
- Part 12: Facial feature data. The purpose is to establish an extensible facial feature data record exchange format and conformity Sex testing method.
- Part 13: Sound data. The purpose is to establish an extensible sound data record exchange format and conformity test method.
- Part 14: DNA data. The purpose is to establish an extensible DNA data record exchange format and conformance test Try method.
- Part 15: Palmprint image data. The purpose is to establish an extensible data record exchange format for human palmprint images and Compliance test methods.
- Part 16: Whole body image data. The purpose is to establish an extensible whole body image data record exchange format and conformity Test method.
- Part 17: Gait image sequence data. The purpose is to establish an extensible data record exchange format for gait image sequences.

format and compliance test methods.

There is currently no regulation for full-body images for cross-border or law enforcement biometrics.

The guidance on the use of video surveillance equipment provides specific regulations on how to collect and use full-body image data in biometric recognition scenarios, including in order to ensure the validity and consistency of full-body image data in cross-border interoperability, We need a dedicated and scalable biometric data exchange format. Standardization of full-body image data is also very important.

Help ensure that images used in databases for identification and verification (including those generated by video surveillance and other similar systems) meet the necessary quality standards and thus meet the requirements of this document.

Figure 1 shows the various components of a full-body image biometric recognition system.

Figure 1 Components of a biometric recognition system

In the absence of international standards that would enable cross-border interoperability, border guards, immigration officers and police use local practices.

Therefore, this document is useful in disaster victim identification and law enforcement scenarios (e.g., victim identification, nameless persons, etc.) in the case of dead bodies and missing persons, describe the full body biometrics and their related non-biometric information.

Information Technology Scalable Biometric Data Interchange format part 16.whole body image data

1 Scope

This document provides a generic and scalable full-body image data library for biometric recognition applications that require the exchange of full-body image data.

format. Typical applications are.

- a) Automated human biometric verification and identification of unknown individuals or corpses (one-to-one or one-to-many comparison);
- b) Supporting human identity verification by comparing individual to full body images;
- c) Support the examination of individuals with full-body images of sufficient resolution to allow the examiner to verify identity or distinguish live or Corpse.

This document is applicable to the use of full-body images and image sequence data generated by video surveillance and other similar systems for identity recognition and verification.

The data format structure of this document is compatible with ISO/IEC 39794-5. In addition to the data format, this document also specifies application specific the configuration files include scene constraints, photo attributes, and digital image attributes such as image space sampling rate, image size, etc.

The configuration files are contained in a series of appendices.

This document does not apply to 3D encoding types "3D point cloud map" and "depth image".

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

ISO 12052 Health informatics Digital Imaging and Communications in Medicine (DICOM) including workflow and data management