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

GB/T 26237.10-2022

Replacing GB/T 26237.10-2014

**Information technology - Biometric data interchange formats -
Part 10: Hand geometry silhouette data**

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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" drafted.

This document is part 10 of GB/T 26237 "Information Technology Biometric Data Interchange Format". GB/T 26237 has

The following sections were published.

- Part 1. Framework;
- Part 2. Fingerprint minutiae data;
- Part 3. Fingerprint spectral data;
- Part 4. Fingerprint image data;
- Part 5. Face image data;
- Part 6. Iris image data;
- Part 7. Signature/Signature Time Series Data;
- Part 8. Fingerprint skeleton data;
- Part 9. Vascular image data;
- Part 10. Hand contour data;
- Part 14. DNA data;
- Part 15. Palmprint image data.

This document replaces GB/T 26237.10-2014 "Information Technology Biometric Data Interchange Format Part 10. Hand Wheel

Compared with GB/T 26237.10-2014, in addition to structural adjustment and editorial changes, the main technical changes are as follows.

- a) Added the definition of the scope and applicability of the compliance test method in the scope (see Chapter 1, Chapter 1 of the.2014 edition);
- b) Added two terms and definitions, "Biometric Data Exchange Record" (see 3.3) and "Tested Realization" (see 3.8);
- c) Deleted the terms and definitions of "field acquisition" (see 4.7 of the.2014 edition) and "pixel" (see 4.7 of the.2014 edition);
- d) Modified "Biometric data block" (see 3.1, 4.1 of the.2014 edition), "Biometric sample" (see 3.2,.2014 edition of the 4.2), "Freeman Chain Code" (see 3.6, 4.5 of the.2014 edition), Hand View Recording (see 3.9, 4.8 of the.2014 edition) and "Acquisition" "face" (see 3.10, 4.10 of the.2014 edition) and other definitions of 7 terms;
- e) 3 abbreviations such as "BDIR", "IUT" and "ppcm" were added (see Chapter 4);
- f) Changed the compliance requirements (see Chapter 5, Chapter 2 of the.2014 edition);
- g) Added requirement for owner identifier in CBEFF format (see 6.3).

This document is modified using ISO /IEC 19794-10.2007 "Information Technology Biometric Data Interchange Format Part 10.

Hand Profile Data".

Compared with ISO /IEC 19794-10.2007, this document has more structural adjustments. Comparison of the structure number changes of the two files

See Appendix A for a list.

Compared with ISO /IEC 19794-10.2007, this document has many technical differences, in the outer margin of the clauses involved

Marked with a vertical single line (|). These technical differences and their reasons are as follows.

- Added the definition of the scope and applicability of the compliance test method in the scope (see Chapter 1);
- Delete the term "living collection" of ISO /IEC 19794-10.2007, because the term does not appear in this document;
- Deleted the term "pixel" in ISO /IEC 19794-10.2007, which is a common term and does not need to be defined repeatedly;

--- Added the terms "biometric data exchange record" (see 3.3) and "tested implementation" (see 3.8) to facilitate the understanding of this document.

understand;

--- Changed the term name "data resolution" (see 3.7), the original name is "image resolution", because "image resolution" is not in this article

appears in the file, what appears is "Data Resolution";

--- Changed the compliance requirements (see Chapter 5);

--- Changed the content of "Note" in 7.2 and "Note" in 8.3.3 to be normative clauses, because compliance with these clauses is required

test;

--- Added normatively cited GB/T 1988 (see 8.1, 8.2.2 and 8.2.3); replaced with normatively cited GB/T 28826.1

ISO /IEC 19785-1 (see 6.3); ISO /IEC 19784-1 (see 6.3) replaced by normative reference GB/T 30267.1

8.3.1 and 8.3.8);

---Changed "shooting device X coordinate", "shooting device Y coordinate", "target X coordinate", "target Y coordinate" and "target Z coordinate" in Table 2

"X coordinate of the starting point of the hand contour" and "Y coordinate of the starting point of the hand contour", because related to this document

Inconsistencies in the requirements of the paragraph are corrected to eliminate ambiguity;

--- Added "compliance test method" (see Appendix B).

The following editorial changes have been made to this document.

--- Added informative Appendix E "Guidelines for Level 3B Compliance Testing".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 26237 "Information Technology Biometric Data Interchange Format" supports the exchange between biometric applications and systems

Interoperability and data exchange, the biometric data exchange format is specified for different biometric identification modalities, conforming to the

Parties to the Biometric Data Interchange Format specified in GB/T 26237 are able to

decode each other's biometric data, thereby

Meet the complexity requirements of applying biometrics to a wide variety of applications.

GB/T 26237 "Information Technology Biometric Data Interchange Format" is proposed to consist of 15 parts.

--- Part 1.Framework. The purpose is to specify the general content, meaning, representation and conformity of biometric data formats testing method.

--- Part 2.Fingerprint minutiae data. The purpose is to specify a data record exchange format and compliance test for fingerprint minutiae points. try method.

--- Part 3.Fingerprint spectral data. The purpose is to specify a data record exchange format and compliance test for fingerprint profiles method.

--- Part 4.Fingerprint image data. The purpose is to specify a data record exchange format and compliance test of fingerprint images method.

--- Part 5.Face image data. The purpose is to specify a data record exchange format and compliance test for face images method.

--- Part 6.Iris image data. The purpose is to specify a data record exchange format and compliance test for iris images method.

--- Part 7.Signature/Signature time series data. The purpose is to specify a data record exchange format for signature/signature data and compliance testing methods.

--- Part 8.Fingerprint skeleton data. The purpose is to specify a data record exchange format and conformity test of a fingerprint skeleton method.

--- Part 9.Vascular image data. The purpose is to specify a data record exchange format and compliance test for human blood vessel images. try method.

--- Part 10.Hand contour data. The purpose is to specify a data record exchange format and