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

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Data matrix code

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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 refers to ISO /IEC 16022:2006 "Information Technology Automatic Identification and Data Acquisition Technology Data Matrix Code Barcode Specification"

Drafted, the degree of consistency is non-equivalent:

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

1 Scope

This document specifies the symbol characteristics, symbol structure, data encoding, symbol size and printing quality requirements, error correction rules,

Refer to technical content such as decoding algorithm, data transmission, and user-selectable application parameters:

This document applies to the generation and reading of data matrix codes:

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document:

GB/T 12905-2019 Barcode Terminology

GB/T 15273:1 Information Processing Octet Single-Byte Coded Graphic Character Set Part

1: Latin Alphabet One

GB /Z 19257-2003 Supply Chain Data Transmission and Exchange

GB/T 23704-2017 Inspection of printing quality of two-dimensional barcode symbols

ISO /IEC 646 ISO 7-bit Coded Character Set for Information Technology Information Interchange (Informationprocessing-ISO 7-bit

codedcharacter setforinformationinterchange)

ISO /IEC 8859-5:1999 Information technology 8-bit single-byte coded graphic character set - Part 5: Latin alphabet/cyrillic characters

Mother (Informationtechnology-8-bitsingle-bytecodedgraphiccharacter sets-Part 5:Latin/Cyrillic

alphabet)

ISO /IEC 19762 Information technology automatic identification and data acquisition technology unified vocabulary [Informationtechnology-

Automaticidentificationanddatacapture(AIDC)techniques-Harmonizedvocabulary]

3 Terms, Definitions, Symbols and Mathematical/Logical Symbols

3:1 Terms and Definitions

Terms and definitions defined in ISO /IEC 19762 and GB/T 12905-2019 and the following terms and definitions apply to this document:

3:1:1

codeword

The value of the 2D barcode character: Intermediate value converted from barcode logic to character set:

[Source: GB/T 12905-2019, 2:54]:

3:1:2

module module

The narrowest constituent unit of symbol characters in one-dimensional barcodes and layered two-dimensional barcodes, or the smallest information-carrying unit in matrix two-dimensional barcodes:

[Source: GB/T 12905-2019, 2:29]:

3:1:3

patternrandomising

In order to improve the decodability of the symbol, according to the pseudo-randomization algorithm given in this document, the specific acquisition of the original coded codeword sequence is carried out:

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