

GB/T 18284—2000 快速响应矩阵码

GB/T 18284—2000 Quick Response Matrix Code

本标准非等效采用 ISO/IEC 18004 : 2000 《自动识别与数据采集技术——条码符号技术规范——QR 码》。QR 码是矩阵式二维码，它是由正方形模块排列于正方形图形中，其中还包括位于符号的三个角的唯一的定伴图形，它可帮助确定符号的位置、尺寸和倾斜度。QR 码的尺寸范围较大，并且提供 4 级纠错。其模块宽度由用户根据应用的条件确定。

This standard is not equivalent to ISO/IEC 18004:2000 "Automatic Identification and Data Collection Technology - Bar Code Symbol Technical Specification - QR Code". The QR code is a matrix two-dimensional code , which is arranged by square modules in a square graphic. The square graphic also includes a unique companion pattern at the three corners of the symbol that helps determine the position, size, and slope of the symbol. And the QR code has a large size range and provides 4 levels of error correction. The square module width can be determined by the user based on the conditions of the application.

本标准根据我国二维码的应用现状，在认真分析研究的基础上，对 ISO/IEC 18004 进行了取舍和补充完善。ISO/IEC 18004 中规定的 QR 码符号有模式 1 符号和模式 2 符号两种符号模式，考虑到 QR 码模式 1 符号是 QR 码的最初规范，模式 2 符号是 QR 码的增强形式，模式 2 符号与模式 1 符号相比，增加了许多新的特性，而且 ISO/IEC 18004 标准推荐在新的和开放的系统中使用模式 2 符号，因此本标准仅规定了 ISO/IEC 18004 标准中 QR 码模式 2 符号码编码、符号结构和尺寸、参考译码算法等技术要求，舍弃了 QR 码模式 1 符号的相关内容。删除了国际标准中的第 14 章：自动鉴别能力、附录 J（提示的附录）：自动鉴别以及附录 M（提示的附录）：QR 码模式 1 符号特性的内容。为便于本标准在我国

的推广应用，用特定的扩展 ASCII 字符集代替原标准中的 JIS 0201 字符集。用中国汉字数据表示模式代替了 ISO/IEC 18004 中日本汉字表示模式的内容，提高了中国汉字的二维码表示效率，满足了用二维条码表示汉字的需求，从而保证了本标准在我国应用的可行性和实用性。

According to the application status of China's two-dimensional code, this standard has made trade-offs and supplements to ISO/IEC 18004 on the basis of careful analysis and research. The QR code symbol specified in ISO/IEC 18004 has two symbol modes: mode 1 symbol and mode 2 symbol. Considering that QR code mode 1 symbol is the initial specification of QR code, mode 2 symbol is an enhanced form of QR code, mode 2 symbol have been added many new features comparing with mode 1 symbol, and the ISO/IEC 18004 standard recommends the use of the mode 2 symbol in new and open systems. Therefore, this standard only specifies the technical requirements of QR code mode 2 symbol code encoding, symbol structure and size, reference decoding algorithm in ISO/IEC 18004 standard, and discards the relevant content of QR code mode 1 symbol. Chapter 14 of the International Standards was removed: Automatic Identification Capability, Appendix J (Appendix to the Prompt): Automatic Authentication and Appendix M (Appendix to the Prompt): Content of the QR Code Mode 1 Symbol Feature. In order to facilitate the popularization and application of this standard in China, the JIS 0201 character set in the original standard is replaced by a specific extended ASCII character set. The Chinese character data representation mode replaces the content of the Japanese Kanji character representation mode in ISO/IEC 18004, which improves the efficiency of Chinese character two-dimensional code

representation and satisfies the requirement of using Chinese characters in two-dimensional bar code, thus ensuring the application of this standard in China.

Feasibility and practicality.

本标准的附录 A、附录 B、附录 C、附录 D、附录 E 和附录 F 是标准的附录；

Appendix A, Appendix B, Appendix C, Appendix D, Appendix E and Appendix F of this standard are appendices to the standard;

本标准的附录 G、附录 H、附录 I、附录 J、附录 K 是提示的附录。

Appendix G, Appendix H, Appendix I, Appendix J, and Appendix K of this standard are appendices to the tips.

本标准由中国物品编码中心提出并归口。

This standard is proposed and managed by Article Numbering Center of China.

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This standard was drafted by Article Numbering Center of China.

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