



**BSI Standards Publication**

**Information technology — Automatic identification  
and data capture techniques — Rectangular Micro QR  
Code (rMQR) bar code symbology specification**

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This British Standard is the UK implementation of ISO/IEC 23941:2022.

The UK participation in its preparation was entrusted to Technical Committee IST/34, Automatic identification and data capture techniques.

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Published by BSI Standards Limited 2022

ISBN 978 0 539 04271 9

ICS 35.040.50

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2022.

### Amendments/corrigenda issued since publication

Date	Text affected
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First edition  
2022-05

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# Information technology — Automatic identification and data capture techniques — Rectangular Micro QR Code (rMQR) bar code symbology specification

*Technologies de l'information — Techniques d'identification automatique et de capture des données — Spécification de la symbologie de code à barres Rectangular Micro QR Code (rMQR)*



Reference number  
ISO/IEC 23941:2022(E)

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Published in Switzerland

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## Foreword

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). In the IEC, see [www.iec.ch/understanding-standards](http://www.iec.ch/understanding-standards).

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 31, *Automatic identification and data capture techniques*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

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## Introduction

Rectangular Micro QR Code (rMQR) is a matrix symbology. The symbol consists of an array of nominally square modules, arranged in a rectangular pattern. Included is a unique finder pattern located at a single corner which is intended to assist in easy location of the symbols position, size, and inclination. A wide range of sizes of symbol is provided for, together with two levels of error correction. Module dimensions are user-specified to enable symbol production by a wide variety of techniques.



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# Information technology — Automatic identification and data capture techniques — Rectangular Micro QR Code (rMQR) bar code symbology specification

## 1 Scope

This document defines the requirements for the symbology known as rMQR. It specifies the rMQR symbology characteristics, data character encoding methods, symbol formats, dimensional characteristics, error correction rules, reference decoding algorithm, printing quality requirements and user-selectable application parameters.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 19762, *Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary*

ISO/IEC 8859-1, *Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1*

ISO/IEC 15415, *Information technology — Automatic identification and data capture techniques — Bar code symbol print quality test specification — Two-dimensional symbols*

## 3 Terms and definitions

For the purpose of this document, the terms and definitions given in ISO/IEC 19762 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1

#### **character count indicator**

bit sequence which defines the data string length in a *mode* (3.6)

### 3.2

#### **encoding region**

region of the symbol not occupied by *function patterns* (3.4) and available for encoding of data and error correction codewords, and for *format information* (3.3)

### 3.3

#### **format information**

encoded pattern containing information on the error correction level and *version* (3.15) applied to symbol characteristics