

**Vöötkodeerimine. Sümbolispetsifikatsioonid.
"Interleaved 2 of 5"**

**Bar coding - Symbology specifications - "Interleaved 2
of 5"**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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|---|--|
| See Eesti standard EVS-EN 801:2000 sisaldab Euroopa standardi EN 801:1995 ingliskeelset teksti. | This Estonian standard EVS-EN 801:2000 consists of the English text of the European standard EN 801:1995. |
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English version

Bar coding

Symbology specifications
'Interleaved 2 of 5'

Codes à barres; spécifications des
symbologies; 'Interleaved 2 of 5'

Strichcodierung; Symbologie-
spezifikationen; "Interleaved 2 of 5"

This European Standard was approved by CEN on 1995-06-22.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 225 "Bar coding" of which the secretariat is held by NNI.

Organisations contributing to the development of the standard include:

- AIM Europe (Automatic Identification Manufacturers)

NOTE: Not all of the symbologies which appear in this document are defined in European Standards ; for information on current European Standards contact the CEN Central Secretariat or National Standards Organisations.

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The technology of bar coding is based on the recognition of patterns encoded in bars and spaces of defined dimensions. There is a number of methods of encoding information in bar code form, known as symbologies, and the rules defining the translation of characters into bar and space patterns and other essential features are known as the symbology specification. "Interleaved 2 of 5" is one such symbology.

Previously, symbology specifications have been developed and published by a number of different private organisations, resulting in certain instances in conflicting requirements for certain symbologies.

Manufacturers of bar code equipment and users of bar code technology require publicly available standard symbology specifications to which they can refer when developing equipment and application standards.

1 Scope

This standard

- specifies the requirements for the bar code symbology known as "Interleaved 2 of 5";
- specifies "Interleaved 2 of 5" symbology characteristics, data character encodation, dimensions, tolerances, decoding algorithms and application-defined parameters.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed below. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

| | |
|--------------|--|
| prEN 1556 | Bar Coding - Terminology |
| prEN 1635 | Bar coding - Test specifications for bar code symbols |
| ISO 646:1991 | Information processing - ISO 7-bit coded character set for information interchange |

3 Definitions

For the purposes of this European Standard the definitions in prEN 1556 shall apply.

4 Requirements

4.1 Symbology characteristics

The characteristics of "Interleaved 2 of 5" are:

- Encodable character set: numeric 0 to 9 (ASCII characters 48 - 57 inclusive, in accordance with ISO 646);
- Code type: continuous;
- Elements per symbol character: 5, of which 2 wide and 3 narrow, encoded as either five bars or five spaces;
- Character self-checking: yes;
- Data string length encodable: variable (even number of characters);
- Bidirectionally decodable: yes;
- Symbol check character: one, optional (see Annex A);
- Symbol character density: 14 to 18 modules per symbol character pair, depending on wide/narrow ratio;
- Non-data overhead: 8 to 9 modules, depending on wide/narrow ratio