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Information technology — Automatic identification and data capture techniques — Aztec Code bar code symbology specification

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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

This second edition cancels and replaces the first edition (ISO/IEC 24778:2008), which has been technically revised.

The main changes are as follows:

— introduction of continuous grading for fixed pattern damages (FPDs);

— grading of print growth deleted and added reference to ISO/IEC 15415.

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Introduction

Aztec Code is a two-dimensional matrix symbology whose symbols are nominally square, made up of square modules on a square grid, with a square bullseye pattern at their centre. Aztec Code symbols can encode from small to large amounts of data with user-selected percentages of error correction.

Manufacturers of bar code equipment and users of the technology require publicly available standard symbology specifications to which they can refer when developing equipment and application standards. The publication of standardised symbology specifications is designed to achieve this.

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Information technology — Automatic identification and data capture techniques — Aztec Code bar code symbology specification

1 Scope

This document defines the requirements for the symbology known as Aztec Code. It specifies the Aztec Code symbology characteristics, including:

— data character encodation;

— rules for error control encoding;

— the graphical symbol structure;

— symbol dimensions and print quality requirements;

— a reference decoding algorithm;

— 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 646, *Information technology — ISO 7-bit coded character set for information interchange*

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 print quality test specification — Two-dimensional symbols*

ISO/IEC 15424, *Information technology — Automatic identification and data capture techniques — Data Carrier Identifiers (including Symbology Identifiers)*

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

AIM Extended Channel Interpretations (ECI), Part 1: Identification Schemes and Protocols

AIM Extended Channel Interpretations (ECI), Part 2: Registration Procedure

AIM Extended Channel Interpretations (ECI), Part 3: Register

3 Terms, definitions, symbols and functions

3.1 Terms and definitions

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

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