

ISO/IEC 15420:2025-11 (E)

Information technology - Automatic identification and data capture techniques - EAN/UPC bar code symbology specification

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements	2
4.1	Symbology characteristics	2
4.2	Symbol structure	2
4.2.1	Symbol types	2
4.2.2	Symbol encodation	2
4.2.3	Symbol formats	4
4.3	Dimensions and tolerances	12
4.3.1	Measurement basis	12
4.3.2	Width of narrow element (X)	12
4.3.3	Bar height	12
4.3.4	Quiet zone	12
4.3.5	Positioning of the add-on symbol	13
4.3.6	Element widths	13
4.3.7	Symbol width	13
4.3.8	Symbol size	14
4.3.9	Dimensional tolerances	14
4.4	Reference decode algorithm	14
4.5	Symbol quality	18
4.5.1	Test methodology	18
4.5.2	Decodability	19
4.5.3	Additional criteria	19
4.6	Application-defined parameters	20
4.7	Human-readable interpretation	20
4.8	Transmitted data	20
4.9	Implementation guidelines	20
Annex A (normative) Additional features		21
Annex B (normative) Symbology identifier		23
Annex C (informative) Overview of the GS1 system		24
Annex D (informative) Illustration of number sets A, B and C and auxiliary patterns		25
Annex E (informative) Dimensioned drawings of the nominal size symbols		28
Annex F (informative) Traditional dimensional tolerances		33
Annex G (informative) Guidelines for reading and printing		35
Bibliography		37

