ISO/IEC 15415:2004-06 (E)

Information technology - Automatic identification and data capture techniques - Bar code print quality test specifica tion - Two-dimensional symbols

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Symbols (and abbreviated terms) 3

5 Quality grading 3
5.1 General 3
5.2 Expression of quality grades 3
5.3 Overall Symbol Grade 4
5.4 Reporting of symbol grade 4

6 Measurement methodology for two-dimensional multi-row bar code symbols 5
6.1 General 5
6.2 Symbologies with cross-row scanning ability 5
6.3 Symbologies requiring row-by-row scanning 10

7 Measurement methodology for two-dimensional matrix symbols 10
7.1 Overview of methodology 10
7.2 Obtaining the test images 11
7.3 Reference reflectivity measurements 12
7.4 Number of scans 15
7.5 Basis of scan grading 15
7.6 Grading procedure 15
7.7 Additional reflectance check over extended area 16
7.8 Image assessment parameters and grading 16
7.9 Scan grading 21
7.10 Overall Symbol Grade 21
7.11 Print growth 22

8 Measurement methodologies for composite symbologies 22

9 Substrate characteristics 22

Annex A (normative) Symbology-specific parameters and values for symbol grading 23

Annex B (informative) Symbol grading flowchart for two-dimensional matrix symbols 38

Annex C (informative) Interpreting the scan and symbol grades 39

Annex D (informative) Guidance on selection of grading parameters in application specifications ... 41

Annex E (informative) Substrate characteristics 46

Annex F (informative) Parameter grade overlay applied to two-dimensional symbologies 48

Bibliography 49