ISO/IEC 24458:2022-05 (E)

Information technology - Automatic identification and data capture techniques - Bar code printer and bar code reader performance testing specification

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, definitions and symbols 2
3.1 Terms and definitions 2
3.2 Symbols 4

4 Bar code printer and consumables 5
4.1 Bar code printer 5
4.1.1 General requirements 5
4.1.2 Performance evaluation items and test methods 6
4.1.3 Performance ranking 15
4.2 Consumables (reception papers, labels and ribbons) 18
4.2.1 General requirement 18
4.2.2 Performance evaluation items and test methods 19
4.2.3 Performance ranking 21
4.3 Test report 23

5 Bar code reader 23
5.1 General 23
5.1.1 Principle 23
5.1.2 Ambient environment conditions 24
5.2 Performance evaluation items and test methods 25
5.2.1 Test chart for reading performance tests 25
5.2.2 Reading performance 30
5.2.3 Electrical property 35
5.2.4 Environmental characteristic 36
5.2.5 Mechanical properties 36
5.3 Performance ranking 38
5.3.1 General 38
5.3.2 Reading performance 38
5.3.3 Electrical property 41
5.3.4 Environmental characteristic 42
5.3.5 Mechanical property 43
5.4 Test report 43

Annex A (informative) Standard image components corresponding to nominal dpi 45

Annex B (informative) Read record form 49

Annex C (informative) Outline of ISO/IEC 15416:2016, E.3 52

Annex D (informative) Test report 53

Annex E (normative) Test chart for bar code reader reading performance test 57

Bibliography 59