

# ISO/IEC 24458:2022-05 (E)

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

---

<b>Contents</b>		<b>Page</b>
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