

ISO/IEC 22592-2:2024-01 (E)

Office equipment - Print quality measurement methods for colour prints - Part 2: Registration and magnification accuracy

Contents		Page
	Foreword	v
	Introduction	vi
	Scope	1
	Normative references	1
1	Terms and definitions	1
2	4 Print preparation procedures	3
3	4.1 Printing environment.....	3
	4.2 Printing materials.....	3
	4.3 Printer settings.....	3
	4.4 Printing operations.....	4
	4.5 Conditioning the prints after printing.....	4
	General requirements for measurements	4
	5.1 Measurement environmental conditions.....	4
5	5.2 Scanner conformance.....	4
	5.2.1 General.....	4
	5.2.2 Test chart for scanner conformance.....	5
	5.2.3 Scanning equipment.....	6
	5.2.4 Scanning procedures.....	6
	5.2.5 Magnification accuracy of scanner.....	7
	5.2.6 Local magnification deviation of scanner.....	7
	5.2.7 Goal values.....	7
	5.2.8 Compensation for magnification accuracy and local magnification deviation.....	8
	5.3 Reporting for scanner conformance.....	8
6	Registration and magnification measurements	9
	6.1 General.....	9
	6.2 Test chart for registration and magnification for each primary colour.....	9
	6.3 Test chart for colour-to-colour variation in registration.....	9
	6.4 Registration measurement for each primary colour.....	10
	6.4.1 Print preparations.....	10
	6.4.2 Scanning procedures.....	10
	6.4.3 Calculation of side-to-side registration variation.....	11
	6.4.4 Calculation of sheet-to-sheet registration variation.....	12
	6.5 Colour-to-colour registration variation measurement.....	13
	6.5.1 Print preparations.....	13
	6.5.2 Scanning procedures.....	13
	6.5.3 Skew compensation.....	14
	6.5.4 Calculation of colour-to-colour registration variations within printed image.....	15
	6.5.5 Calculation of side-to-side variations in colour-to-colour registration.....	16
	6.5.6 Calculation of sheet-to-sheet variations in colour-to-colour registration.....	16
	6.6 Magnification measurement for each primary colour.....	16
	6.6.1 Print preparations.....	16
	6.6.2 Scanning procedures.....	16
	6.6.3 Calculation of magnification variations within printed image.....	16
	6.6.4 Calculation of side-to-side magnification variation.....	17
	6.6.5 Calculation of sheet-to-sheet magnification variation.....	17
	6.7 Reporting for registration and magnification measurements.....	17

7	Reporting	18
7.1	General requirements for reporting.....	18
7.2	Reporting items.....	18
Annex A	(informative) Flatness of prints	19
Annex B	(informative) Test charts for colour-to-colour variation in registration	20
Annex C	(normative) Compensation procedure for scanner conformance	21
Annex D	(informative) Examples of local magnification measurement on flat bet scanning systems	24
Bibliography	30