ISO 20793:2024-05 (E)

Photography - Lenticular print for changing images - Measurements of image quality

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1
3.1 Terms 1
3.2 Abbreviations 2

4 Standard environmental conditions 2
4.1 Temperature and humidity 2
4.2 Ambient illumination conditions 2

5 Measurement conditions 2
5.1 General 2
5.2 Geometry of measurements 3
5.2.1 Standard conditions with hemispherical illumination 3
5.2.2 Standard conditions with directional illumination 3
5.3 Light source 4
5.4 Light measuring device (LMD) 4
5.5 Working standards and references 5

6 Preparation of lenticular print samples 6
6.1 Test pattern 6
6.2 Printing 7
6.3 Test images for lenticular prints produced by imaging directly through the lenticular screen 7
6.4 Construction of a lenticular print 8

7 Measurements and calculations 8
7.1 General 8
7.2 Measurements of angular dependence 9
7.3 Calculation of crosstalk, viewing angle range and angular misalignment 10
7.4 Crosstalk for laser-engraved, lenticular samples 11
7.5 Uniformity in the printing area 12

8 Classifications 12
8.1 General 12
8.2 Crosstalk 12
8.3 Viewing angle range 13
8.4 Angular misalignment 13
8.5 Uniformity in the printing area 13

Annex A (informative) Explanation of a lenticular lens print 14

Annex B (informative) Procedures of lenticular printing 16

Annex C (informative) Evaluation of lenticular material quality prior to laser imaging 22

Annex D (informative) Selection and receiving inspection of lenticular lens sheets 27

Bibliography 28