

ISO 12233:2000-09 (E)

Photography - Electronic still-picture cameras - Resolution measurements

Contents		Page
Foreword		iv
0	Introduction	v
0.1	Purpose	v
0.2	Technical background	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test chart	5
4.1	Introduction	5
4.2	Material	6
4.3	Size	6
4.4	Test patterns	6
4.5	Test-pattern modulation	6
4.6	Units	6
4.7	Features	6
4.8	Positional tolerance	6
5	Test conditions	10
5.1	Test-chart illumination	10
5.2	Camera framing and lens focal-length setting	10
5.3	Camera focusing	10
5.4	Camera settings	10
5.5	White balance	11
5.6	Luminance and colour measurements	11
5.7	Gamma correction	11
6	Test measurements	11
6.1	Visual resolution	11
6.2	Limiting resolution	12
6.3	Spatial frequency response	12
6.4	Aliasing ratio	15
7	Presentation of results	15
7.1	Introduction	15
7.2	Visual resolution	15
7.3	Limiting resolution	15
7.4	Spatial frequency response (SFR)	15
7.5	Aliasing ratio	16
Annex A (informative)	SFR measurement algorithm C-code	17
Annex B (informative)	Test-chart dimensions	28
Annex C (normative)	Spatial frequency response (SFR) algorithm	29
Annex D (informative)	Relationships between resolution metrics	31
Bibliography		32