

ISO 9241-305:2008-11 (E)

Ergonomics of human-system interaction - Part 305: Optical laboratory test methods for electronic visual displays

Contents	Page
Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	1
4.1 Measurements -- Basic measurements and derived procedures	1
4.2 Structure	2
4.3 Matrix of measurement conditions methods and procedures	2
5 Measurement conditions	2
5.1 Preparations and procedures	2
5.2 Test accessories	7
5.3 Test patterns	13
5.4 Alignment -- Measurement location and meter position	25
5.5 Light measuring device (LMD)	28
5.6 Measurement field	30
5.7 Angular aperture	30
5.8 Meter time response	31
5.9 Test illumination	31
5.10 Other ambient test conditions	43
6 Measurement methods	44
6.1 Basic light measurements	44
6.2 Luminance profile measurements	52
6.3 Directional light measurements	54
6.4 Temporal performance measurements	56
6.5 Reflection measurements	72
6.6 Luminance analysis	85
6.7 Contrast analysis	94
6.8 Colour analysis	105
6.9 Dimensions and geometries	113
6.10 Geometrics and defects	127
6.11 Alignment of virtual image displays	145
7 Conformance	159
Annex A (informative) Overview of the ISO 9241 series	160
Annex B (informative) Guidelines for measurement method types	164
Annex C (informative) Matrix of measurement procedures and their sources	166
Annex D (informative) Bidirectional reflectance distribution function (BRDF)	175
Annex E (informative) Uncertainty analysis guidelines	177

Annex F (informative) Reconstruction of luminance distribution by microstepping	182
Bibliography	183