

DIN EN ISO 8598-1:2015-01 (E)

Optics and optical instruments - Focimeters - Part 1: General purpose instruments (ISO 8598-1:2014)

Contents	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Technical requirements for general purpose focimeters	7
5 Metrological requirements	9
5.1 General	9
5.2 Reference wavelength	9
5.3 Performance requirement	9
6 Test procedures	12
6.1 General	12
6.2 Checking the indication errors	12
6.3 Checking the axis marker for the optical centre of lens	12
6.4 Checking the alignment of the axis marker	13
6.5 Checking the adjusting rail	13
6.6 Checking the non-symmetric error for automated focimeters	13
6.7 Checking the repeatability of vertex power measurement for automated focimeters	14
6.8 Checking for the centration error	14
6.9 Checking the capability of focimeters to measure tinted lenses	14
6.10 Checking the astigmatic axis repeatability for low-powered cylinder lens	14
6.11 Special procedures for eyepiece focimeters	15
6.12 Criterion for image focusing in manual focusing focimeters	15
7 Marking	15
7.1 Reference to ISO 8598-1	15
7.2 General information to be supplied by the manufacturer	15
7.3 Additional information to be supplied by the manufacturer	16
Annex A (informative) Use of correction values when measuring spectacle lenses	17
Annex B (informative) Example for evaluation of uncertainty of measurement for automated focimeters for general use	22
Annex C (normative) Specifications of special reference lenses	28
Annex D (informative) Information for users on the performance of general purpose focimeters covered by this part of ISO 8598	30
Bibliography	31