

# DIN EN ISO 19980:2022-04 (E)

## Ophthalmic instruments - Corneal topographers (ISO 19980:202 1)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	5
4	Requirements .....	13
4.1	Area measured .....	13
4.2	Measurement sample density .....	13
4.3	Measurement and report of performance .....	13
4.4	Colour presentation of results .....	13
5	Test methods and test devices .....	13
5.1	Tests .....	13
5.1.1	Accuracy test .....	13
5.1.2	Repeatability test .....	13
5.2	Test surfaces .....	13
5.2.1	Reflection-based and Placido ring corneal topographers .....	13
5.2.2	Luminous surface corneal topographer .....	14
5.2.3	Optical-sectioning corneal topographer .....	14
5.2.4	Specification of test surfaces .....	14
5.2.5	Verification of test surfaces .....	14
5.2.6	Type testing of surfaces .....	14
5.3	Data collection -- Test surfaces .....	15
5.4	Analysis of the data .....	15
5.4.1	General .....	15
5.4.2	Structure of the accuracy data set .....	16
5.4.3	Analysis of the paired data sets .....	16
5.4.4	Report of accuracy performance .....	17
6	Accompanying documents .....	17
7	Marking .....	17
Annex A (informative) Test surfaces for corneal topographers (CTs) .....		18
Annex B (informative) Standardized displays for corneal topographers (CTs) .....		20
Annex C (normative) Calculation of area-weighting values .....		23
Annex D (normative) Test methods for measuring human corneas .....		25
Bibliography .....		26