GALILEI G4
System Information

Measurement Ranges

Central Corneal Thickness:	250–800 µm
Keratometry:	25–75 D (4.5–13.5 mm)

In-vivo Repeatability

Parameter	SD specified	SD measured
Central Corneal Thickness:	3.00 µm	1.13 µm
Simulated Keratometry (SimK):	0.25 D	0.05 D
Angle of flattest meridian:	10 °	3 °

Study Design

Internal study of 24 normal eyes in 12 subjects, age range 26–53 years (mean = 38 years).
Repeatability as estimated by the mean standard deviation of consecutive measurements averaged over all subjects and eyes.

Abbreviations

Mean	Arithmetic mean of consecutive measurements
SD specified	Specified repeatability as defined by the mean standard deviation
SD measured	Measured repeatability as estimated by the mean standard deviation
SimK	Keratometry corneal curvature over central area of diameter 1–4 mm

Technical Data

Placido disc:	20 rings
Measurement speed:	60 images in 1 second
Number of measurement points – Scheimpflug/Placido:	up to 100 000 measurement points
Displayed map coverage:	max. 10 mm

Measurement unit characteristics

Measuring principle:	Rotational Scan of Dual Scheimpflug slit images combined with Placido and top view images
Observation illumination:	NIR (near-infrared) LED 810 nm
Scheimpflug illumination:	Blue LED (UV-free) 470 nm
Placido illumination:	NIR (near-infrared) LED 750 nm

Electrical conditions

Power requirement:	100–240 VAC, 50/60 Hz, 400 W
Fuses (110/230 V):	2×T6, 3 AH, 250 VAC

Classification according to IEC 60601-1

Type of protection against electric shock:	Class 1
Degree of protection against electric shock:	Type B applied part
Degree of protection against damaging penetration of water:	IP20