

GALILEI G6

System Information

Measurement Ranges

Axial Length:	14–40 mm (default 14–35 mm)
Central Corneal Thickness:	250–800 μm
Anterior Chamber Depth:	1.5–6.5 mm
Lens Thickness:	0.5–6.5 mm
Keratometry:	25–75 D (4.5–13.5 mm)
White-to-White:	6–14 mm
Pupillometry:	0.5–10 mm

In-vivo Repeatability

Parameter	SD specified	SD measured
Axial Length:	0.050 mm	0.015 mm
Central Corneal Thickness:	3.00 μm	1.13 μm
Anterior Chamber Depth:	0.050 mm	0.015 mm
Lens Thickness:	0.100 mm	0.035 mm
Simulated Keratometry (SimK):	0.25 D	0.05 D
Angle of flattest meridian:	10°	3°
White-to-White:	0.050 mm	0.024 mm

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:	Combination of optical A-Scan, Dual Scheimpflug slit images and 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
Biometry wavelength:	880 nm
Image acquisition:	3 high definition CCD cameras

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

