GALILEI ColorZ

ziemer OPHTHALMOLOGY

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Modules

Refractive Displays	GALILEI G4	GALILEI G6
Refractive	•	•
Asymmetries	•	•
IOL Power	•	•
Total Corneal Wavefront	•	•
Custom	•	•
Densitometry	•	•
Color Eye Metrics	•	•
Difference	•	•
Verify	•	•
Corneal Inlay Mode	•	•
CLMI.X	•	•
Z-LASIK	○	•
Santhiago PTA Report™	○	○

Cataract Displays	GALILEI G4	GALILEI G6
Biometry (including CCT, ACD, LT, AL)	×	•
IOL Calculator*	○	•
Toric IOL Calculator**	○	•
Advanced IOL	×	•

Connectivity	GALILEI G4	GALILEI G6
DICOM/EMR Connection	○	•
Remote Workstation	○	•
CSV Export	•	•
Third Party Software		
Okulix Export	×	○
PhacoOptics	×	○
Holladay Consultant Export	×	○
PANACEA Export	×	○

- • Included
- ○ Optional
- × Not available

*IOL Formulae: Barrett Universal II, Haigis, Holladay I, Hoffer Q, SRK II, SRK/T, Shammas no-history (post-refractive)

**Toric IOL Formulae: Barrett Universal II with predicted and measured posterior corneal surface.

All in One: Optical Biometry, Dual Scheimpflug Tomography and Placido Topography

The GALILEI G6 ColorZ comes with the capabilities of the G4 and adds an optical biometer to measure lens thickness, anterior chamber depth and axial length for IOL calculation.

The GALILEI G4 ColorZ and the GALILEI G6 ColorZ are CE marked and FDA cleared. For some countries, availability may be restricted due to regulatory requirements. Please contact Ziemer for details.

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System information

	GALILEI G4 ColorZ		GALILEI G6 ColorZ	
Measurement Ranges				
Central Corneal Thickness	250–800 µm		250–800 µm	
Keratometry	25–75 D (4.5–13.5 mm)		25–75 D (4.5–13.5 mm)	
White-to-White	6 – 14 mm		6–14 mm	
Pupillometry	0.5 – 10 mm		0.5–10 mm	
Axial Length	N/A		14–40 mm (default 18–35 mm)	
Anterior Chamber Depth	1.5 – 6.5 mm		1.5–6.5 mm	
Lens Thickness	N/A		0.5–6.5 mm	
In-vivo Repeatability				
Parameter	SD specified	SD measured	SD specified	SD measured
Axial Length	N/A	N/A	≤ 50 µm	≤ 17 µm
Central Corneal Thickness	≤ 3.00 µm	1.2 µm	≤ 3.00 µm	1.2 µm
Anterior Chamber Depth	≤ 50 µm	15 µm	≤ 50 µm	15 µm
Lens Thickness	N/A	N/A	≤ 100 µm	29 µm
Simulated Keratometry (SimK)	≤ 0.25 D	0.05 D	≤ 0.25 D	0.05 D
White-to-White	≤ 50 µm	16 µm	≤ 50 µm	16 µm
Pupillometry	≤ 50 µm	6 µm (in an artificial eye)	≤ 50 µm	6 µm (in an artificial eye)
Angle of flattest meridian	≤ 10 ° for astigmatism > 0.5 D	2.9 °	≤ 10 ° for astigmatism > 0.5 D	2.9 °
Technical Data				
Placido disc	20 rings		20 rings	
Measurement speed	60 images in 1 second		60 images in 1 second	
Number of measurement points – Scheimpflug/Placido	up to 100 000 measurement points		up to 100 000 measurement points	
Displayed map coverage	max. 10 mm		max. 10 mm	
Measurement unit characteristics				
Measuring principle	Rotational Scan of Dual Scheimpflug slit images combined with Placido disc and top view images		Combination of optical A-Scan, Dual Scheimpflug slit images and Placido disc and top view images	
Observation illumination	NIR (near-infrared) LED 810 nm		NIR (near-infrared) LED 810 nm	
Scheimpflug illumination	Blue LED (UV-free) 470 nm		Blue LED (UV-free) 470 nm	
Placido illumination	NIR (near-infrared) LED 810 nm		NIR (near-infrared) LED 810 nm	
Biometry wavelength	N/A		880 nm	
Image acquisition	3 high definition CCD cameras		3 high definition CCD cameras	
Classification according to IEC 60601-1				
Type of protection against electric shock	Class 1		Class 1	
Degree of protection against electric shock	Type B applied part		Type B applied part	
Degree of protection against damaging penetration of water	IP20		IP20	
Electrical conditions				
Power requirement	100-240 VAC, 50/60 Hz, 400 W		100–240 VAC, 50/60 Hz, 400 W	
Fuses (110/230 V)	2xT6, 3 AH, 250 VAC		2×T6, 3 AH, 250 VAC	
Classification according to IEC 60825-1:2014				
Laser class	N/A		1	

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Issue Date 2021-09 Doc. No CM3941-0267-01 REF 410.931.021