

## COLORED UP Modules

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

- 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.

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

### 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.

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



## COLORED UP

### System information



#### 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
-------------	-----	---

