

PacScan PLUS

# Sphere

The Next Generation of  
A-Scan and Pachymetry



SonomedEscalon™

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PacScan PLUS  
**Sphere**

The Next Generation of  
 A-Scan and Pachymetry

Choice of A-scan, pachymetry, or both  
 Save patients, physicians, lenses, exams  
 Intuitive and efficient user interface

**A-Scan Function**



Ultrasound Probe	10 MHz A-probe
Scan Modes	Selectable immersion or direct contact A-scan with manual or automatic capture (cataract, dense cataract, aphakic, and pseudophakic modes)
Measurements	Auto calculation of axial length, anterior chamber depth, lens thickness, and vitreous length Individual zone velocity selection Axial length average and standard deviation provided for up to 10 scans per exam On-board calibration
IOL Formulas and Selection	Refractive IOL Formulas: Binkhorst, Regression-II, Theoretic/T, Holladay, Hoffer-Q, Haigis Post-Refractive IOL Formulas: Laskany Myopic, Laskany Hyperopic, Aramberry Double-K Integrated customizable lens database; selectable user profiles

**Pachymetry Function**



Ultrasound Probe	20 MHz pachymeter probe
Range	300-1000 microns
Clinical Accuracy	±5 µm
Electronic Accuracy	±1 µm
Measurements	Automatic sensing algorithm 32 instantaneous measurements averaged with standard deviation for each reading Auto calibration and probe test Adjustable corneal tissue velocity Central corneal thickness (CCT) and peripheral Selectable measure mode to take one reading at a time or auto-capture 5 readings successively Measurement review
Scan Modes	Single point – single reading Single point – multiple readings Multiple points – single reading Multiple points – multiple readings
IOP Correction	Auto IOP correction based on CCT Multiple published customizable IOP correction formulas available

**General**

Computer	Integrated Microsoft Surface Go tablet Intel Pentium Gold dual-core processor	Controls	USB foot pedal Wireless keyboard and mouse ( <i>optional</i> )
System Memory	4 GB RAM	Data Exchange	DICOM-compliant ( <i>optional</i> )
Storage Capacity	64 GB eMMC	Printers	Any Windows-compatible printer
Screen	10" LCD touchscreen display High-resolution 1800p x 1200p	Reports	Detailed exam reports for print or export
Operating System	Windows 10 Home	Console Dimensions	12.8" w x 10.2" d x 11.0" h (324 cm x 359 cm x 279 cm)
Connections	Three (3) USB 3.0 ports Bluetooth 4.1 WiFi 802.11a/ac/b/g/n	Power	100-240 VAC, 50/60 Hz auto-switching power supply Battery operation capable (Lithium-ion) Energy Star certified computer