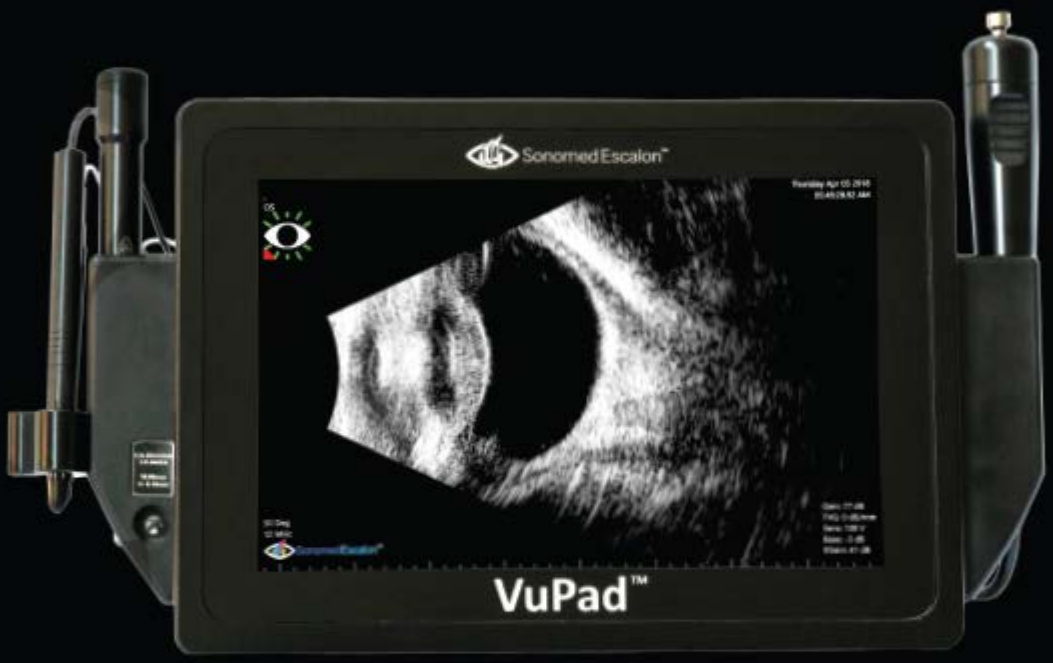
Sonomed Escalon™



VuPad™

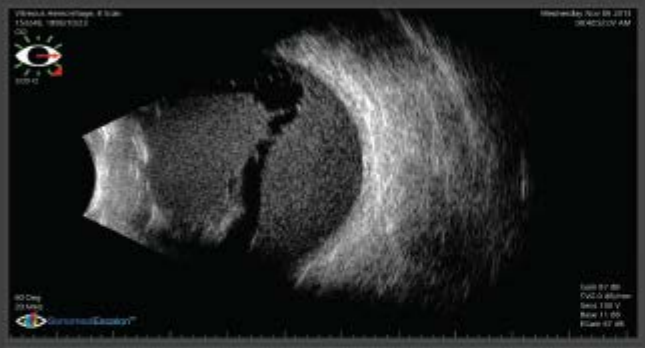
INNOVATION IN ULTRASOUND
YOU CAN SEE AND TOUCH

SonomedEscalon™

www.sonomedescalon.com
+1 516-354-0900

One system.
Multiple options.

Choose from any combination of modalities of A-scan, B-scan, UBM, and/or Pachymetry

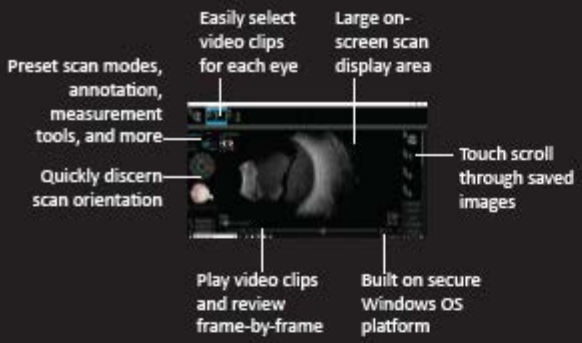


Unparalleled Image Quality and Analytical Tools

The better the image, the more accurate the diagnosis. Next generation electronic hardware, magnetic drive low-noise probes, optimized and customizable scan settings, peerless signal processing, and integrated Enhanced Focus Rendering™ software provides superior B-scan and UBM image quality. Plus an extensive set of analytical tools, including Quantitative Angle Analysis, Eye Tracking, Angle Caliper, Distance Caliper, Area Measurement, A-Scan Overlay, Text Editor, Arbitrary A-Scan, and more.

Elegant. Exceptional.

Intuitive graphic interface and multi-touch screen, VuPad puts everything at your fingertips. Compact ergonomic form factor, fully adjustable integrated tabletop stand, and VESA mount puts VuPad where you need it in minimal space.



Intuitive. Efficient workflow.

Quickly perform and review ultrasound exams with easy to use touch interface, preset scan modes to effortlessly optimize image quality for area of interest, frame-by-frame review of up to 12 video clips (configurable for more), use of touch pinch zoom, and more.

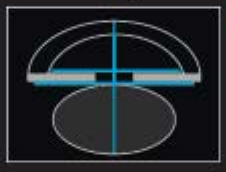
UBM AI™ + ICLguru®

FROM SONOMED ESCALON

AI POWERED SIZING

The VuMAX HD is the worlds premier system for use with ICLguru, the most advanced and accurate AI-powered ICL sizing calculator, that utilizes next-generation modeling and image analysis of well-aligned high-resolution UBM images to automatically assess 25+ parameters. The VuMAX HD provides exclusive UBM AI tools to help users quickly and confidently obtain well-aligned images needed for accurate ICLguru calculations.

Select The Right Lens, The First Time, Every Time.™



UBM AI Eye Tracking

Realtime auto analysis and measurement of several anterior segment anatomical values, including corneal thickness, ACD, lens thickness, STS, ATA, pupil diameter.

UBM AI Align Assist

Realtime intuitive on-screen instruction helps users quickly and easily capture optimally-aligned scans, imperative for accurate ICLguru results.

UBM AI Auto Capture

Auto compiles composite clip of best scan frames to ensure maximum accuracy, simplify scanning process, and minimizing overall time.

UBM AI ICLguru Interface

Auto upload patient imaging and data, create patient record, and auto populate patient demographics and ACD, ATA, and aRise measures, and launch ICLguru web interface. Simple, quick, and efficient, saving time, preventing errors, and ensuring the very best results.

Connected. Integrated.

Easily connect VuPad to your network, wireless keyboard, external monitor, EHR, and/or PACS

B-Scan

Ultrasound Probes	Sealed magnetic-drive B-probes with 12 MHz or 20 MHz B-probes with focused transducers
Scan Settings	Selectable scan setting profiles to optimize image quality, including presets for orbit, vitreous body, retina surface, and deep retina / choroid
Scan Sampling	256-ray scan with 2048 sample points for each ray (> half-million sample points per transducer sweep)
Scan Controls	Fully adjustable time-varied gain (TVG), baseline, log gain, and exponential gain (e-gain) Adjustable velocity (for eyes with silicone oil)
Scan Position Indicator	One-click selection of axial or longitudinal scan clock position with eye model confirmation Free-form text for scan position details that auto annotate onto images and video clips
Video Clips	Capture and store custom length video clips up to 20 fps Replay in real-time, scalable slow motion, or one frame at a time Store up to 50 video clips per exam, easily add or remove video clips from exam record
Images	Separately save any number of individual frames from video clips as images, complete with annotation(s)
A-Scan Trace	Superimpose arbitrary A-scan trace onto images with a single button click
Measurement	Unlimited measurements using linear calipers and angle measurement tool
B-Biometry	Automatically populates B-Biometry parameters into preferred formulas for calculation of IOLs

UBM

Ultrasound Probes	HD magnetic-drive water path probe with 35 MHz or 50 MHz focused transducers
Scan Settings	Selectable scan setting profiles to optimize image quality, including presets for sulcus-to sulcus, angle detail, motion picture, and high resolution
Scan Sampling	256-ray scan with 2048 sample points for each ray (> half-million sample points per transducer sweep)
Scan Controls	Fully adjustable time-varied gain (TVG), baseline, log gain, and exponential gain (e-gain)
Scan Position Indicator	One-click selection of axial or longitudinal scan clock position with eye model confirmation Free-form text for scan position details that auto annotate onto images and video clips
Video Clips	Capture and store custom length video clips up to 20 fps Replay in real-time, scalable slow motion, or one frame at a time Store up to 50 video clips per exam, easily add or remove video clips from exam record
Images	Separately save any number of individual frames from video clips as images, complete with annotation(s)
A-Scan Trace	Superimpose arbitrary A-scan trace onto images with a single button click
Measurement	Unlimited measurements using linear calipers and angle measurement tool
Analysis Tools	Quantitative Angle Analysis UBM AI Eye Tracking UBM AI Align Assist UBM AI Auto-Capture Auto ICLguru Interface
Accessories	Set of 4 immersion cups included

A-Scan

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: Latkany Myopic, Latkany Hyperopic, Aramberri Double-K Integrated customizable lens database with selectable user profiles
Diagnostic A-Scan	Optional diagnostic A-scan module 8 MHz diagnostic A-scan probe

Pachymetry

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 and customizable IOP correction formulas available

General

Controls	USB foot pedal Wireless keyboard and mouse
Computer	Intel Quad-Core High-Efficiency Processor
System Memory	8 GB High-Performance DDR RAM
Hard Drive	500 GB SSD solid-state drive *(standard)* 1 TB SSD solid-state drive *(optional)*
Operating System	Windows 10 IoT Enterprise 2021 Multilanguage LTSC (10+ years of security updates without version change)
Connections	Two (2) USB 3.0 ports GigE Ethernet LAN port HDMI port Bluetooth 4.0 WiFi 802.11n dual-band
Scanning Option	Quick Mode or save patient data
Data Exchange	DICOM-compliant *(optional)*
Printers	Any Windows-compatible printer
Reports	Detailed exam reports for printing or exporting
Console Dimensions	13.3" w x 8.0" d x 2.0"h (33.8 cm x 20.3 cm x 5.1 cm) 4.5 lbs (2.1 kg)
Power	100-240 VAC, 50/60 Hz auto-switching medical-grade power supply

SonomedEscalon™

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PROUDLY MADE IN THE USA