Sonomed Escalon™

See Every Detail

VuMAX HD™
Simply The Best.
Period.

SonomedEscalon™

www.sonomedescalon.com
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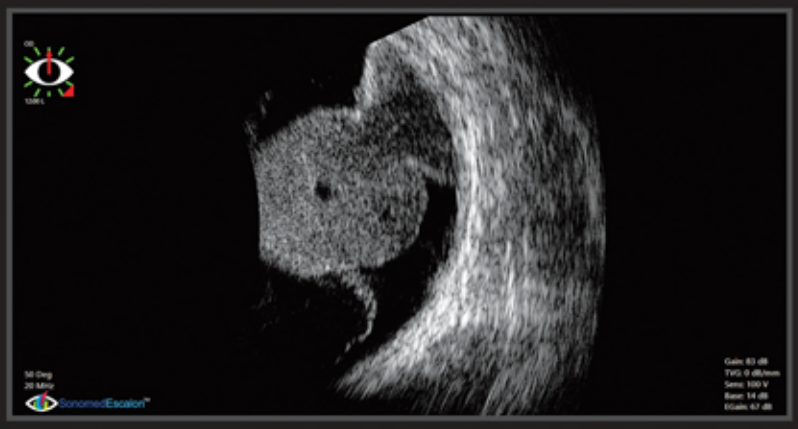
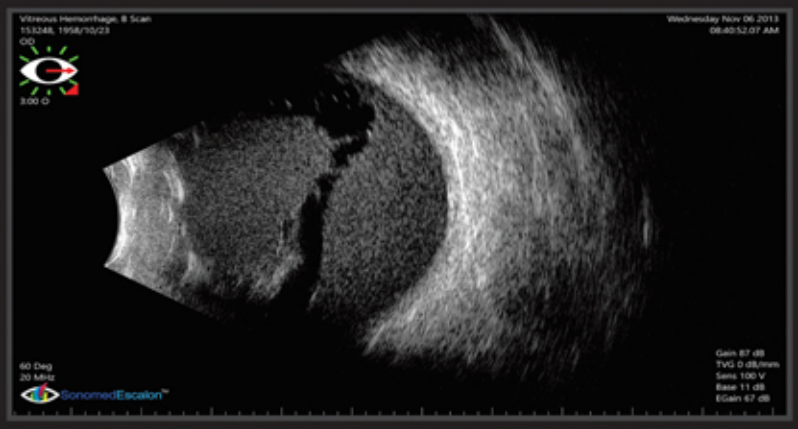
Unparalleled Image Quality.

Hands down the gold standard in ophthalmic ultrasound. Unparalleled UBM and B-scan image quality with next generation electronic hardware, magnetic drive low-noise probes, optimized and customizable scan settings, peerless signal processing, and integrated Enhanced Focus Rendering™ software, and large ultra high resolution screen allows you to capture both crisp still images and record video that can be carefully reviewed frame-by-frame.





Optimized Scan Settings.

With VuMAX HD, easily select from preset scan settings that zoom and optimize imaging at the speciic area of interest or customize settings to your own liking.

B-Scan

- Orbit
- Retina Surface
- Vitreous Body
- Choroid

UBM

- Sulcus-to-Sulcus
- Angle Detail
- Motion Picture
- High Resolution

As You Like It.

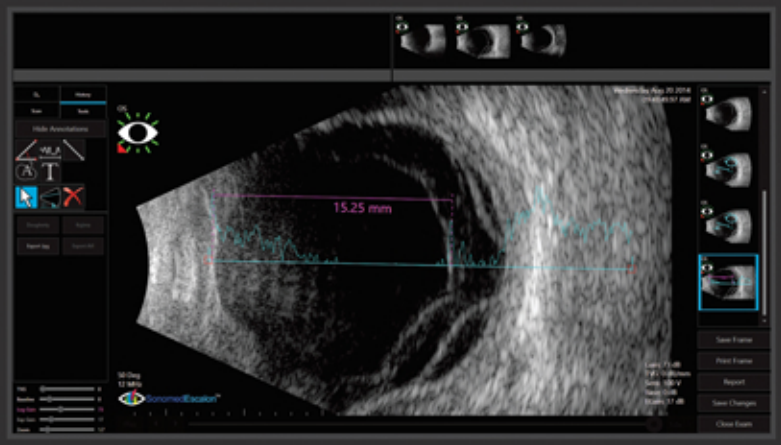
Select any combination of modalities, including biometric A-scan, posterior B-scan, diagnostic A-scan and/or UBM. Your choice of specialized probes and transducers focus on the area of interest and provide greatest resolution and accuracy.

Elegant user interface provides useful tools that are intuitive, simple, and efficient to use. Time-saving features such as selectable patient database display to easily search and access archived exam records. Document scan orientation with the single click of a button. Replay videos in real-time, slow motion, or frame-by-frame. Superimpose A-scan trace, perform linear and angle measurements, and annotate onto B-scan and UBM images. Auto calculation of axial length average and standard deviation, IOL formulas, and lens database for biometric A-scan.

Elegant. Intuitive. Exceptional.

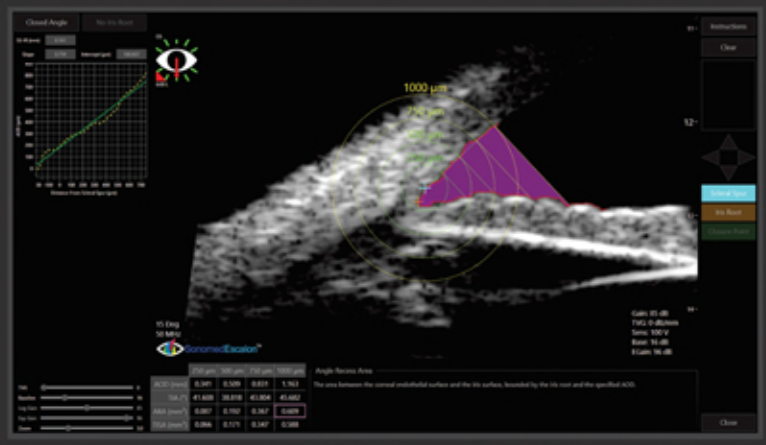
Measurement and Annotation.

Extensive set of post processing tools:
Angle Caliper, Distance Caliper, Area Measurement, A-Scan Overlay, Text Editor, Arbitrary A-Scan, Angle Analysis, Eye Tracking



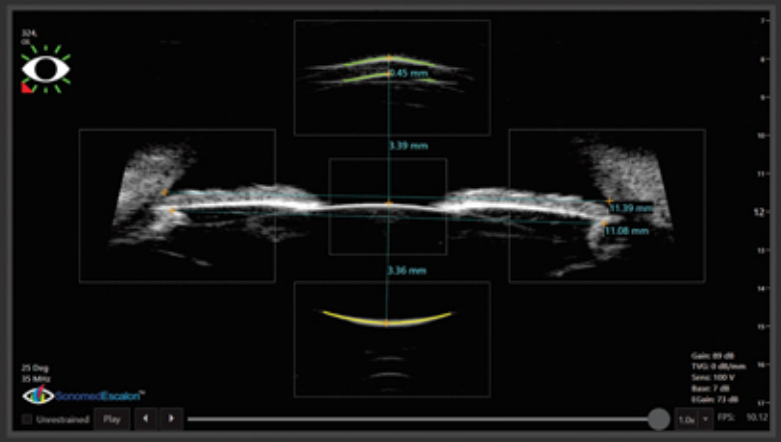
Quantitative Angle Analysis.

Accurately measure key parameters of the angle to easily track structure properties of time and assess difference during mydriatic and miotic conditions.



AI-Assist Eye Tracking.

Auto detection of angle-to-angle, sulcus-to-sulcus, lens thickness, ACD, and corneal thickness with quantitative metrics for proper scan alignment.



AI-Assist Auto-Capture.

Intelligent design for pre-op ICL selection that auto creates a composite clip of the best frames from an entire session based on quantitative data.

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 AI-Assist Eye Tracking ™ AI-Assist Auto-Capture ™ Automated Zaldivar ICL Guru ™ upload and 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

General

Controls	USB foot pedal Wireless keyboard and mouse
Computer	Intel i5 2.7 GHz (3.3 GHz turbo) core processor
System Memory	8 GB DDR3L 1600 MHz memory
Hard Drives	Two (2) RAID-configured 1 TB enterprise class drives for data storage Separate SATA SSD solid-state drive for operating system
Operating System	Windows 10 Pro
Connections	Five (5) USB 3.0 ports GigE Ethernet LAN port HDMI, serial, VGA, and RJ-45 ports
Data Exchange	JPG, AVI, or EXM export DICOM-compliant *(optional)*
Printers	Any Windows-compatible printer
Reports	Detailed exam reports for printing or exporting
Console Dimensions	13.5" w x 13.5" d x 3.0"h (34.3 cm x 34.3 cm x 7.6 cm) 13.0 lbs (5.9 kg)
Power	100-240 VAC, 50/60 Hz auto-switching medical-grade power supply

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