See Every Detail

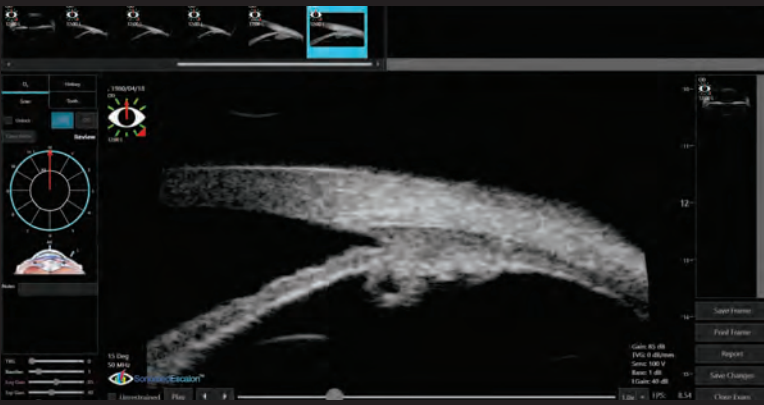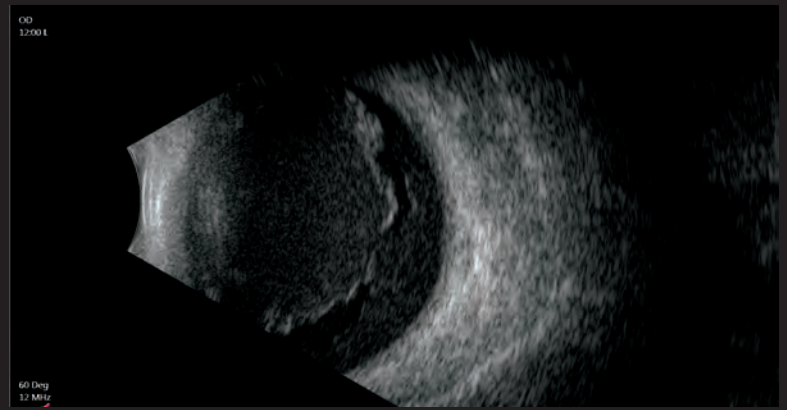**VuMAX HD** ™
**Simply The Best.**
Period.

Unparalled 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.
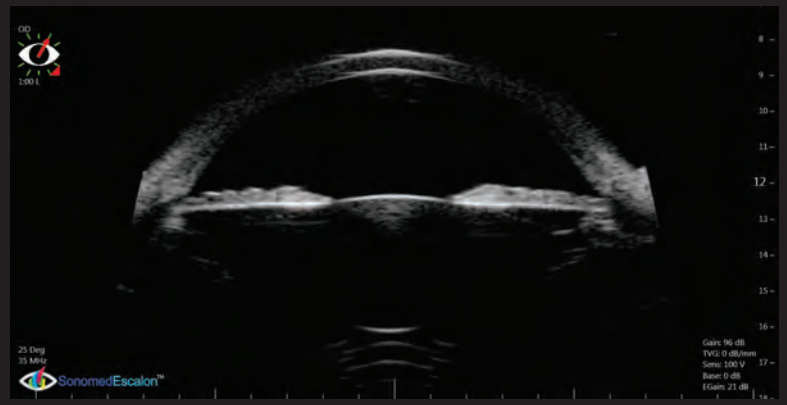
Quantitative Angle Analysis.

Accurately and consistently measure key parameters of the angle using the VuMAX HD UBM angle analysis tool. Easily track structure properties over time and assess differences during mydriatic and miotic conditions.
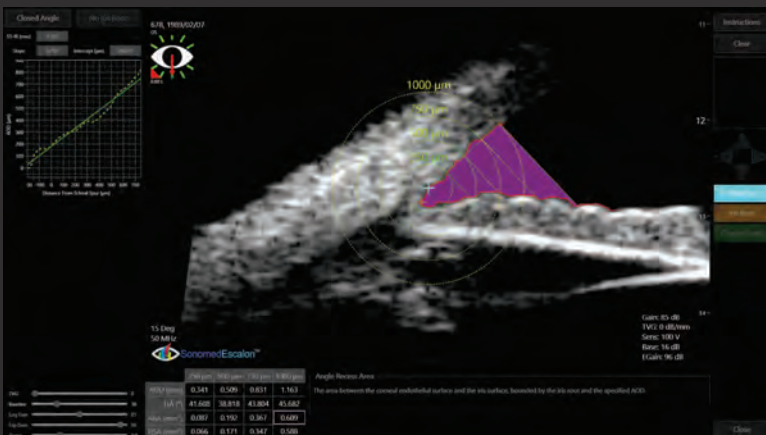
Eye Tracking **Alignment.**

Real-time feedback to ensure proper alignment of UBM scans is why the VuMAX HD is the gold standard for sulcus-to-sulcus measurements and premium lens implantation.
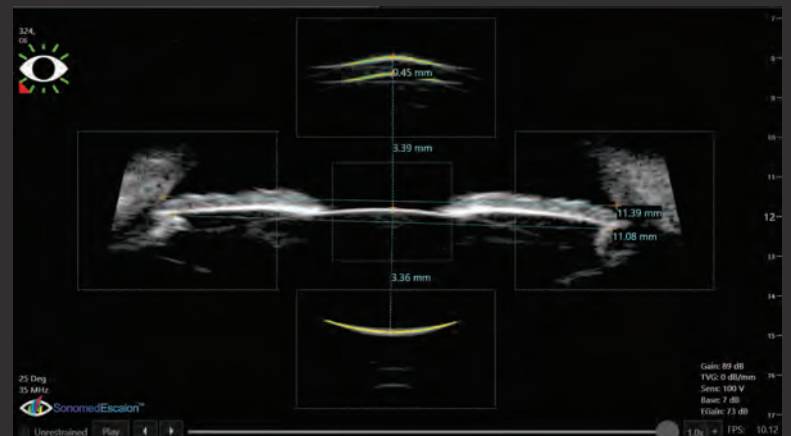
Elegant user interface provides useful tools that are intuitive, simple, and efficient to use. Time-saving features such as selectable patient database display to easily search and access archive exam records. Document scan orientation with the single click of a button. Replay videos in real-time, slow motion, or frame-by-frame. Super-impose 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, nine IOL formulas, and lens database for biometric A-scan. Easily capture corneal thickness and calculate corrected IOP.

Elegant.
Intuitive.
Exceptional.

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, UBM, and/or pachymetry. Your choice of specialized probes and transducers focus on the area of interest and provide greatest resolution and accuracy.

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 50-frame video clips up to 20 fps
	Replay in real-time, scalable slow motion, or one frame at a time
	Store up to 12 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

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 50-frame video clips up to 20 fps
	Replay in real-time, scalable slow motion, or one frame at a time
	Store up to 12 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	Angle analysis quantification tool
	Eye tracking alignment tool
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 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

SonomedEscalon™

PROUDLY MADE IN THE USA

2020-02-1