



Sonomed Escalon™

# See Every Detail



## VuMAX HD™ Simply The Best. Period.

### B-Scan

<b>Ultrasound Probes</b>	Sealed magnetic-drive B-probes with 12 MHz or 20 MHz B-probes with focused transducers
<b>Scan Settings</b>	Selectable scan setting profiles to optimize image quality, including presets for orbit, vitreous body, retina surface, and deep retina / choroid
<b>Scan Sampling</b>	256-ray scan with 2048 sample points for each ray (> half-million sample points per transducer sweep)
<b>Scan Controls</b>	Fully adjustable time-varied gain (TVG), baseline, log gain, and exponential gain (e-gain) Adjustable velocity (for eyes with silicone oil)
<b>Scan Position Indicator</b>	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
<b>Video Clips</b>	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
<b>Images</b>	Separately save any number of individual frames from video clips as images, complete with annotation(s)
<b>A-Scan Trace</b>	Superimpose arbitrary A-scan trace onto images with a single button click
<b>Measurement</b>	Unlimited measurements using linear calipers and angle measurement tool
<b>B-Biometry</b>	Automatically populates B-Biometry parameters into preferred formulas for calculation of IOLs

### A-Scan

<b>Ultrasound Probe</b>	10 MHz A-probe
<b>Scan Modes</b>	Selectable immersion or direct contact A-scan with manual or automatic capture (cataract, dense cataract, aphakic, and pseudophakic modes)
<b>Measurements</b>	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
<b>IOL Formulas and Selection</b>	Refractive IOL Formulas: Binkhorst, Regression-II, Theoretic/T, Holladay, Hoffer-Q, Haigis Post-Refractive IOL Formulas: Laskany Myopic, Laskany Hyperopic, Aramberri Double-K Integrated customizable lens database with selectable user profiles
<b>Diagnostic A-Scan</b>	Optional diagnostic A-scan module 8 MHz diagnostic A-scan probe

### UBM

<b>Ultrasound Probes</b>	HD magnetic-drive water path probe with 35 MHz or 50 MHz focused transducers
<b>Scan Settings</b>	Selectable scan setting profiles to optimize image quality, including presets for sulcus-to-sulcus, angle detail, motion picture, and high resolution
<b>Scan Sampling</b>	256-ray scan with 2048 sample points for each ray (> half-million sample points per transducer sweep)
<b>Scan Controls</b>	Fully adjustable time-varied gain (TVG), baseline, log gain, and exponential gain (e-gain)
<b>Scan Position Indicator</b>	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
<b>Video Clips</b>	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
<b>Images</b>	Separately save any number of individual frames from video clips as images, complete with annotation(s)
<b>A-Scan Trace</b>	Superimpose arbitrary A-scan trace onto images with a single button click
<b>Measurement</b>	Unlimited measurements using linear calipers and angle measurement tool
<b>Analysis Tools</b>	Angle analysis quantification tool Eye tracking alignment tool
<b>Accessories</b>	Set of 4 immersion cups included

### General

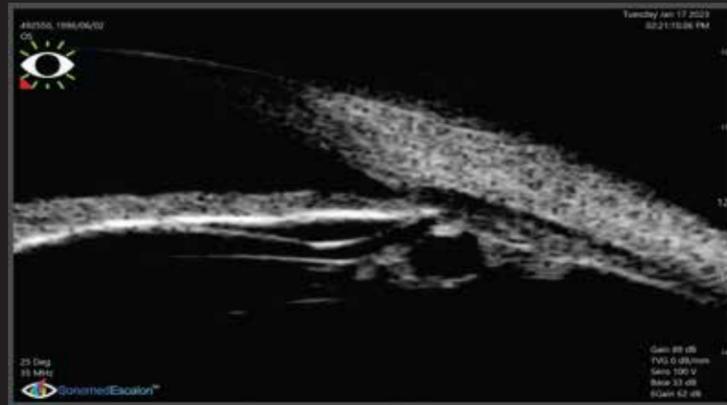
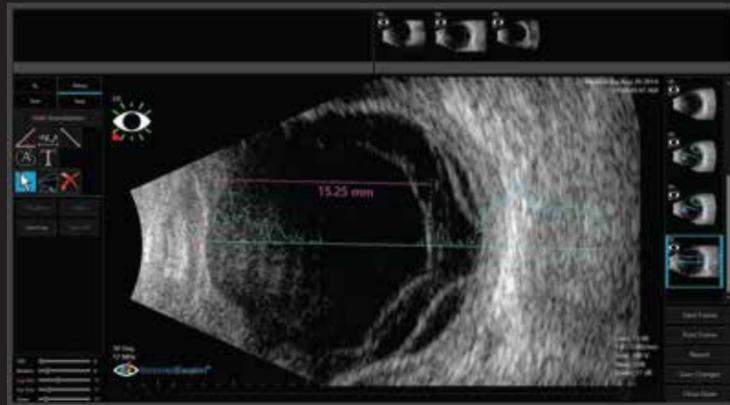
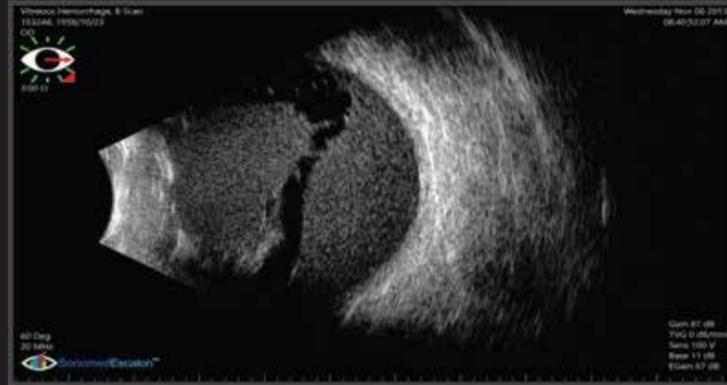
<b>Controls</b>	USB foot pedal Wireless keyboard and mouse
<b>Computer System Memory</b>	Intel i5 2.7 GHz (3.3 GHz turbo) core processor
<b>Hard Drives</b>	8 GB DDR3L 1600 MHz memory Two (2) RAID-configured 1 TB enterprise class drives for data storage Separate SATA SSD solid-state drive for operating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

# 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.

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 specific area of interest or customize settings to your own liking.

B-Scan

UBM

Orbit

Retina Surface

Sulcus-to-Sulcus

Angle Detail

Vitreous Body

Choroid

Motion Picture

High Resolution

## 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.

## 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.

