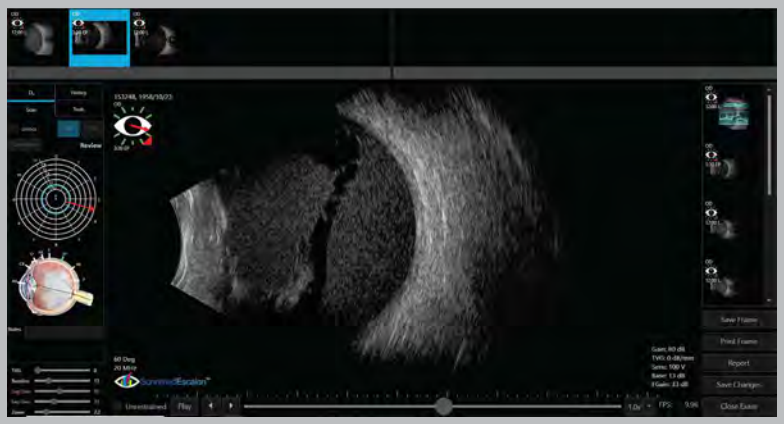
SonomedEscalon™

VuPad™

INNOVATION IN ULTRASOUND YOU CAN SEE AND TOUCH

One system. Multiple options.

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

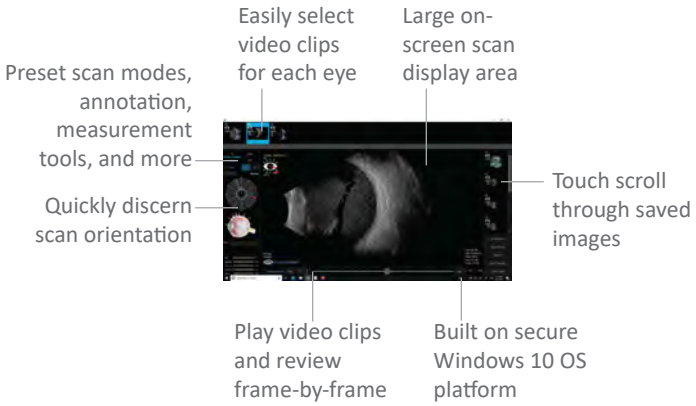


Unparalled. Image quality.

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.

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.

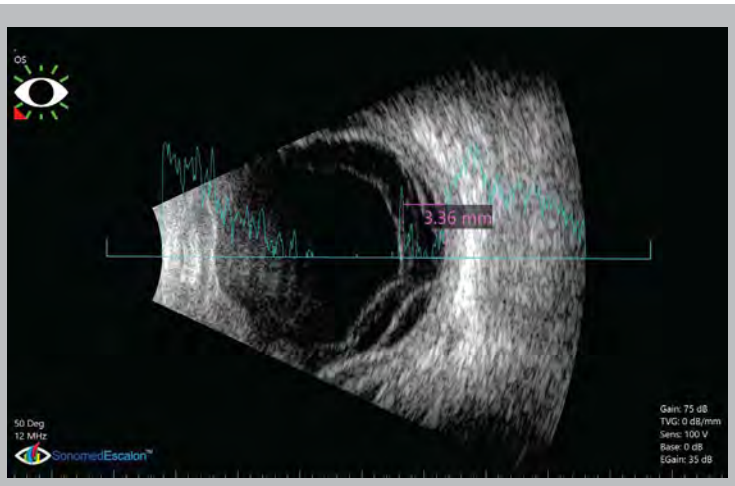


Intuitive. Efficient workflow.

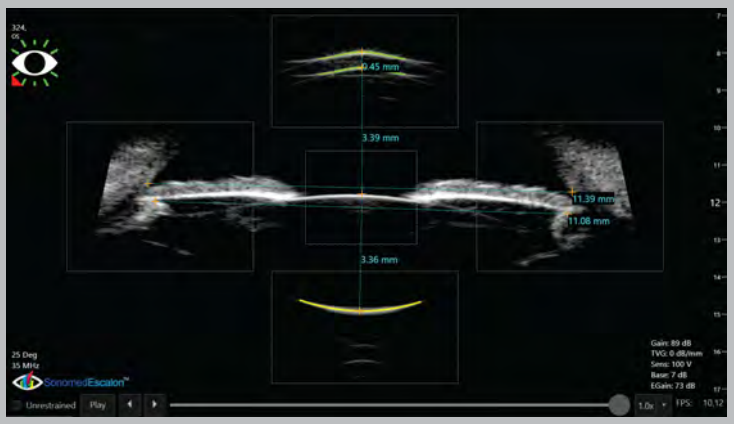
Quickly perform and review ultrasound exams with easy to use touch interface, preset scan modes to effortlessly optimize image quality for area of interest, frame-by-frame review of up to 12 video clips, use of touch pinch zoom, and more.

Insightful. Unique features.

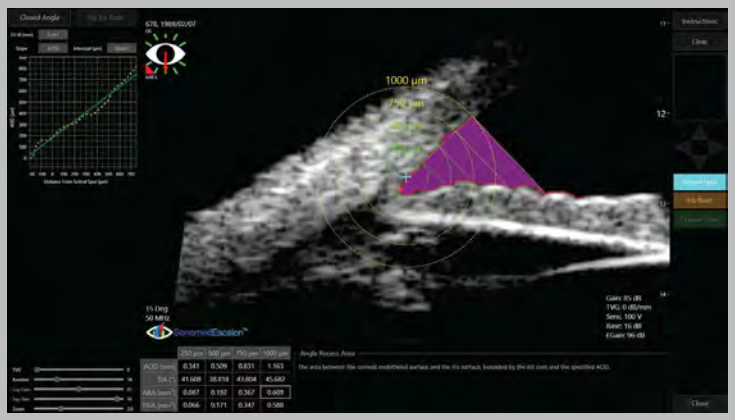
Tools to help align, measure, diagnose, and monitor



Arbitrary A-Scan allows you to superimpose an A-scan trace onto B-scan and UBM images for precise measurement and analysis



Eye Tracking Alignment provides real-time feedback to ensure proper alignment of UBM scans for sulcus-to-sulcus measurements



Advanced Angle Analysis allows accurate quantification and tracking of angle properties, including differences during mydriatic and miotic conditions

WiFi Bluetooth HDMI USB (2x) Ethernet DICOM

Connected. Integrated.

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

Technical specifications.

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 Pentium N4200 1.1 GHz (2.0 GHz turbo) quad-core
System Memory	8 GB DDR3L 1600 MHz memory
Hard Drive	500 GB SSD solid-state drive *(standard)* 1 TB SSD solid-state drive *(optional)*
Operating System	Windows 10 IoT Enterprise 2019 Multilanguage LTSC version ensuring 10 years of security updates without requiring version upgrade
Connections	Two (2) USB 3.0 ports GigE Ethernet LAN port HDMI port Bluetooth 4.0 WiFi 802.11n dual-band
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

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