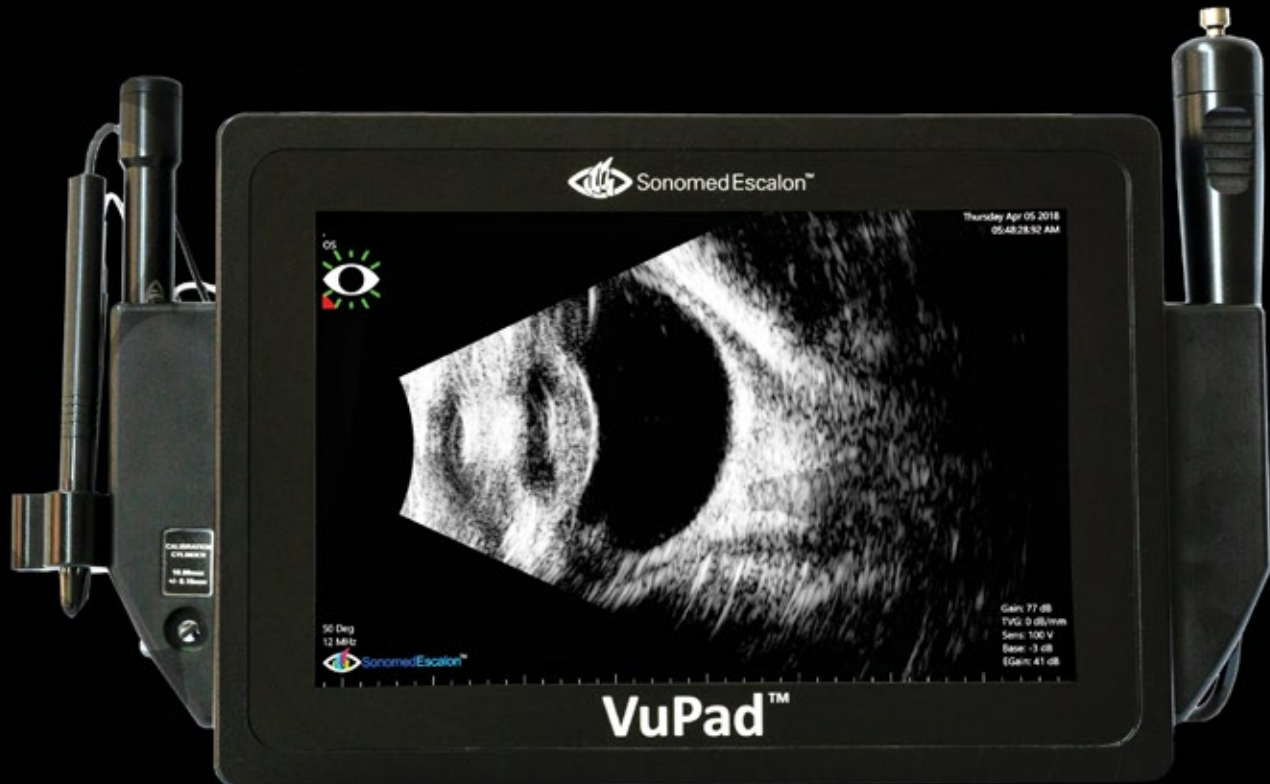




Sonomed Escalon™



**VuPad™**

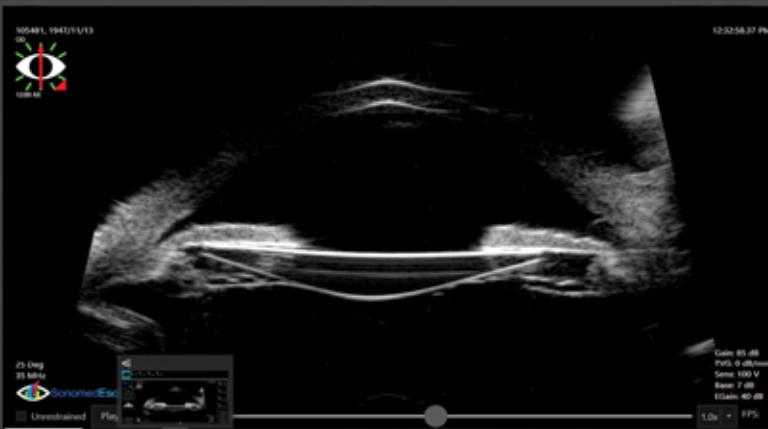
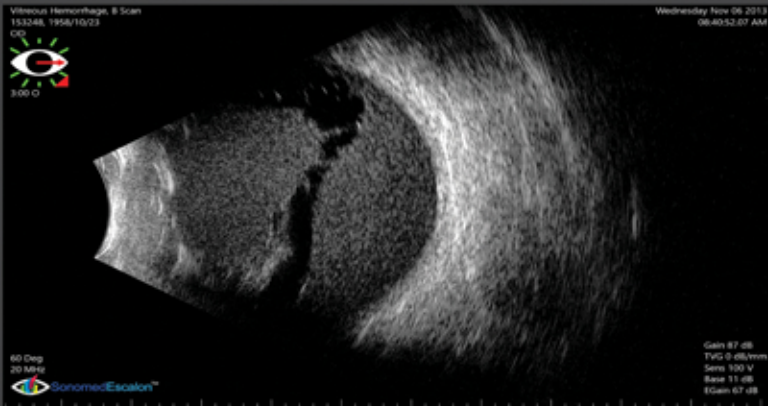
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## One system. Multiple options.

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



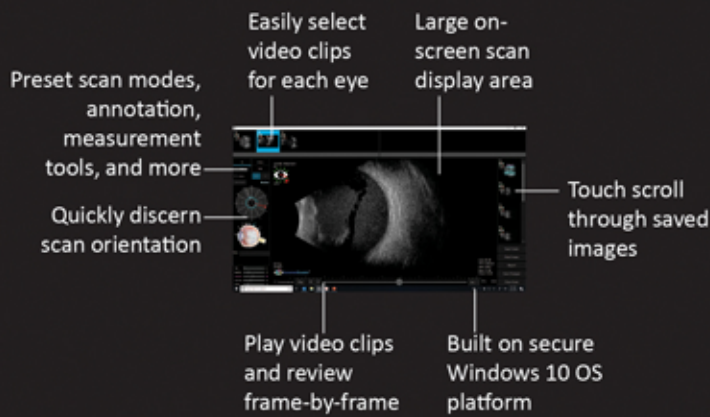
## Unparalleled Image quality.

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.

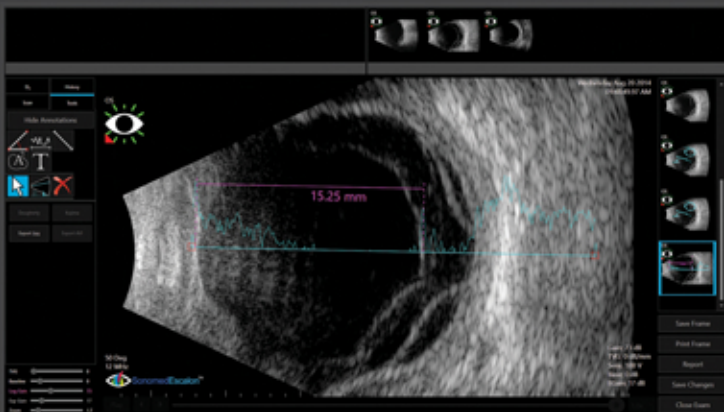


## Intuitive. Efficient workflow.

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.

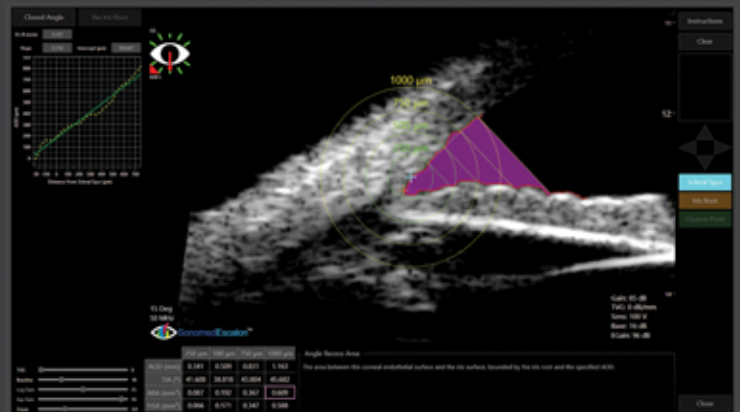
## Measurement and Annotation.

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



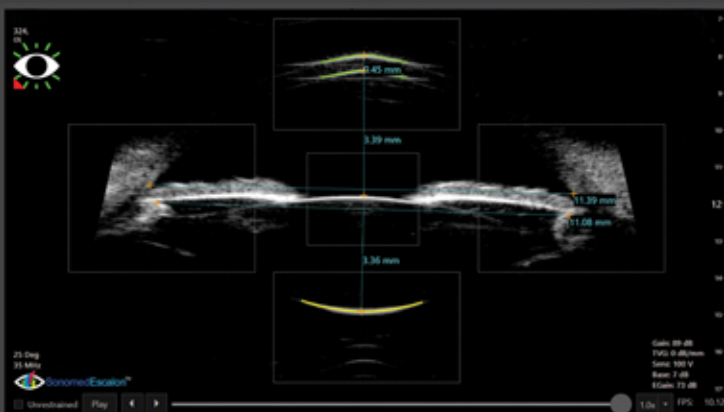
## Quantitative Angle Analysis.

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



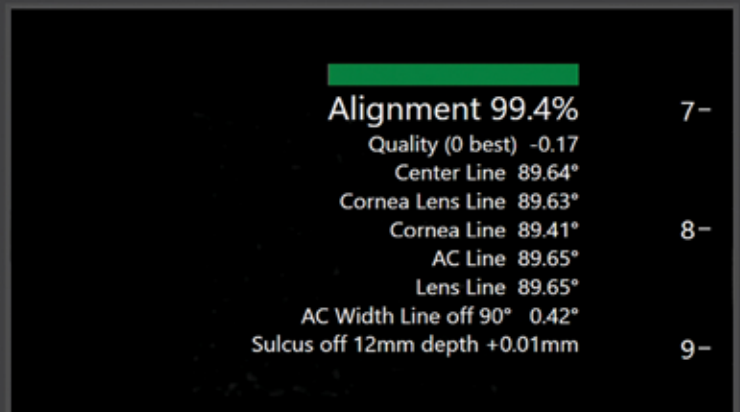
## AI-Assist Eye Tracking.

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.



## Connected. Integrated.

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

## 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

## 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
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<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>	Quantitative Angle Analysis AI-Assist Eye Tracking™ AI-Assist Auto-Capture™ Automated Zaldivar ICL Guru™ upload and interface
<b>Accessories</b>	Set of 4 immersion cups included

## 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, Aramberry 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

## Pachymetry

<b>Ultrasound Probe</b>	20 MHz pachymeter probe
<b>Range</b>	300-1000 microns
<b>Clinical Accuracy</b>	±5 µm
<b>Electronic Accuracy</b>	±1 µm
<b>Measurements</b>	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
<b>Scan Modes</b>	Single point – single reading Single point – multiple readings Multiple points – single reading Multiple points – multiple readings
<b>IOP Correction</b>	Auto IOP correction based on CCT Multiple published and customizable IOP correction formulas available

## General

<b>Controls</b>	USB foot pedal Wireless keyboard and mouse
<b>Computer</b>	Intel Pentium N4200 1.1 GHz (2.0 GHz turbo) quad-core
<b>System Memory</b>	8 GB DDR3L 1600 MHz memory
<b>Hard Drive</b>	500 GB SSD solid-state drive ( <i>standard</i> ) 1 TB SSD solid-state drive ( <i>optional</i> )
<b>Operating System</b>	Windows 10 IoT Enterprise 2019 Multilanguage LTSC version ensuring 10 years of security updates without requiring version upgrade
<b>Connections</b>	Two (2) USB 3.0 ports GigE Ethernet LAN port HDMI port Bluetooth 4.0 WiFi 802.11n dual-band
<b>Scanning Option</b>	Quick Mode or save patient data
<b>Data Exchange</b>	DICOM-compliant ( <i>optional</i> )
<b>Printers</b>	Any Windows-compatible printer
<b>Reports</b>	Detailed exam reports for printing or exporting
<b>Console Dimensions</b>	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)
<b>Power</b>	100-240 VAC, 50/60 Hz auto-switching medical-grade power supply



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