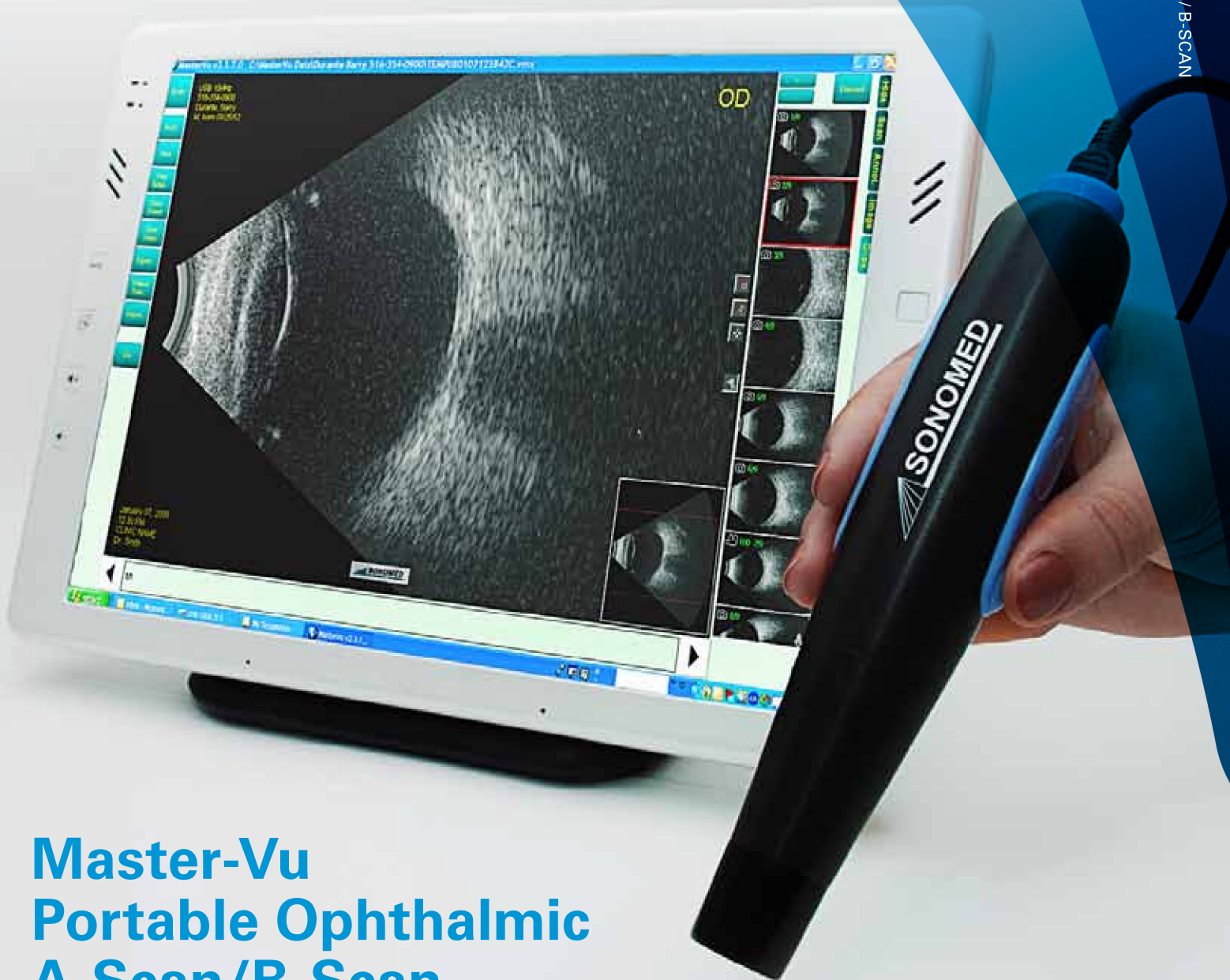




Sonomed Escalon™

MASTER-VU  
PORTABLE OPHTHALMIC A-SCAN / B-SCAN



# Master-Vu Portable Ophthalmic A-Scan/B-Scan

# Features:

## Portable for Use on Multiple Computers Quick and Easy USB Connection to PC Powerful and Intuitive Master-Vu Software

### 1. General:

#### Models:

- MV5600 Master-Vu B-Scan
- MV4500 Master-Vu A-Scan

#### Features:

- Quick and Easy USB Connection
- Touch Screen Compatible
- Integrated Patient Database
- Intuitive and Powerful Software
- Personalized Exam Reports

### 2. A-Scan:

#### Scan Modes:

- Direct Contact / Immersion
- 5 Examination Modes:
  - Cataract
  - Dense Cataract
  - Aphakic
  - Pseudophakic (5 settings)
  - Manual
- Review Screen for A-Scan Measurement

#### Measurements:

- ACD, Lens, Vitreous, and AXL
- Individual Zone Velocities
- Average with Standard Deviations

#### Specifications:

- Clinical Accuracy  $\pm 0.1\text{mm}$
- Electrical Accuracy  $\pm 0.032\text{mm}$
- Lens Calculations in 0.25D Increments
- 1600 Lens Database

#### Formulas:

- Available IOL Formulas:
  - Binkhorst
  - Regression-II
  - Theoretic/T
  - Holladay
  - Hoffer-Q
  - Haigis
- Post-Refractive IOL Formulas:
  - Laskany Myopic Regression
  - Laskany Hyperopic
  - Aramberri Double-K

#### A-Scan Probe Styles:

- Standard A-Scan Probe for Hand-Held, Immersion, or Slit Lamp Mounted Application
- Soft-Touch A-Scan Probe for Hand-Held Use Minimizing Corneal Compression

### 3. B-Scan:

#### Probe:

- Transducer Frequency: 12MHz
- On-Probe Activation Switch

#### Tools:

- Adjustable Zoom, Pan, and Area Select
- Brightness and Contrast Control
- Near/Mid/Far Gain Control
- On-Screen Annotation

#### Data Acquisition and Display:

- Scanning Method: Sector
- Frame: 60°, 256 lines, 2000 Samples/Line
- Frame Rate: 30 fps (max)
- Adjustable Acoustic Output for Improved Penetration (Scan Depth: 30-60 mm)
- Capture Frames (.bmp or .jpg) or Video Clips up to 100 Frames (.wmv)
- 256 Levels Gray Scale

#### Measurements:

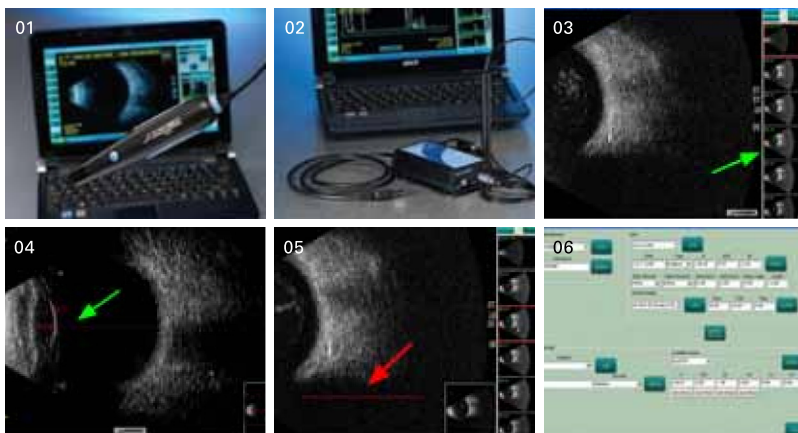
- Distance:
  - Multiple Calipers
  - Precision: 0.046 mm
- Angle:
  - Multiple Calipers and Vertex
  - Precision: 1/2°

#### Resolution:

- Electronic: 0.015mm (max)
- Clinical: 0.1mm

#### Data Management:

- Frames (.bmp or .jpg)
- Video Clips up to 100 Frames (.wmv)



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- 01 Master-Vu B-Scan
  - 02 Master-Vu A-Scan
  - 03 Easy Navigation of Thumbnail Images and Clips
  - 04 Caliper Tools for Multiple Simultaneous Distance and Angle Measurements
  - 05 On Screen Annotation
  - 06 IOL Comparisons with Extensive EZ-Lens Database
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