

A/B mode ultrasound driven PC system

Intellectual
Know-how
Revolutionary
Professional

A/B mode ultrasound driven PC system



A B
Aviso



 **Quante
medical**
Always one step ahead

AVISO

A/B mode ultrasound driven PC system

UNIQUE WORK STATION CONCEPT

CONTROLS ARE INTUITIVE AND ALWAYS ACCESSIBLE

- Remote control touch screen provides control at your fingertips
- Access functions and controls with a single click

POWERFUL POST PROCESSING FUNCTIONS

- User-friendly patient and user data base
- Automatic image recording with Cineloop
- Adjustable gain on frozen pictures with Varigain
- Image and data recall with a wide range of post processing tools
 - Precision measurements
 - Diagnostic notations on pictures

MODERN DESIGN ADAPTS TO YOUR WORKING ENVIRONMENT

- Portable - use AVISO as your primary system or take it to your remote clinics
- Modular: up to 3 probes
- Probe holder:
 - Safe
 - Practical
 - 180° orientation

DURING EXAMINATION



DURING POST PROCESSING



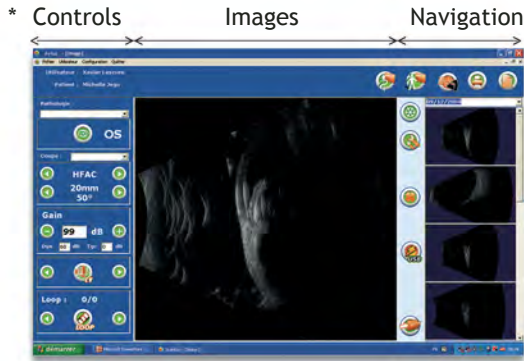
EASY TO USE AND INTUITIVE SOFTWARE

AVISO INTELLIGENT SOFTWARE

- Simple icons on PC and remote control touch screen
- Main tool bar always visible
- 3 dedicated zones:
 - Controls / Images / Navigation(*)

A set of five software interface icons arranged horizontally. From left to right: 'User identification' (a green circle with a white caduceus), 'Create Patient File' (a green circle with a white person icon), 'Scan' (a green circle with a white ultrasound probe icon), 'IOL calculation' (a green circle with a white lens icon), and 'Print' (a green circle with a white printer icon).

Intellectual Know-how Revolutionary Professional



DIAGNOSIS MADE EASY

HIGH DEFINITION 10MHz B-SCAN

- Exquisite resolution
- Automatic biometry in B mode - perfect for Staphyloma patients

HIGH FREQUENCY B-SCAN

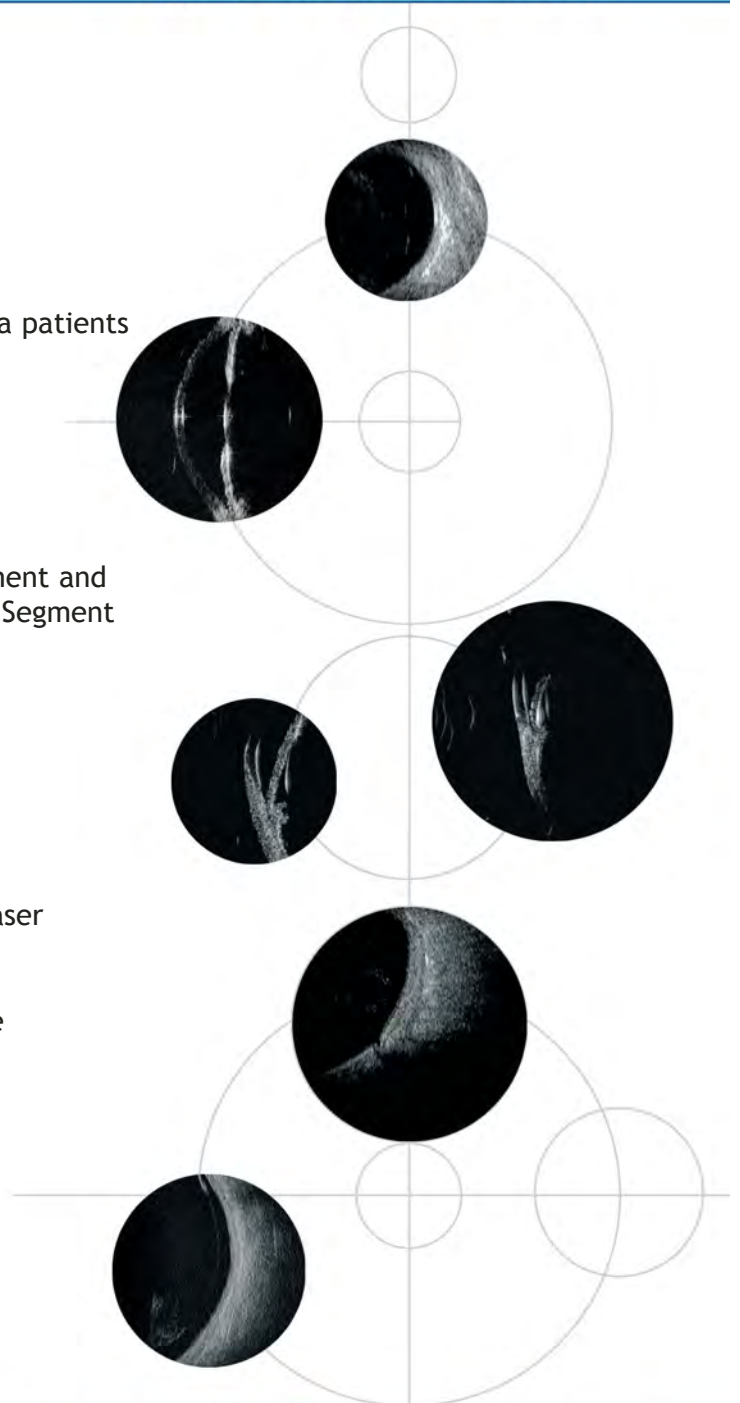
- Optional high frequency imaging of anterior and posterior segments
 - Perfect for precision measurement of Anterior Segment and viewing formerly unseen pathology in the Posterior Segment
- Closed probes
 - Allow easy cleaning and durability in use
 - Precludes possibility of corneal abrasion
 - No scleral immersion shell requirement

PRECISION BIOMETRY

- Established clinical efficacy - precision equivalent to laser interferometry
- Multiple formulas for post-refractive and normal eyes
- Automatic discrimination feature designed to eliminate optic nerve scans
- Immersion or contact
- IOL calculation in .25D or .50D increments

STAY UP TO DATE

- Upgradeable software as technology improves
- Remains state of the art technology





Aviso

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TECHNICAL SPECIFICATIONS:

The Aviso instrument is a complete ultrasound diagnostic A and B imaging system

B-scan

- Gain adjustable from 20 to 110 dB
- Adjustable forward gain (T.G.C) from 0 to -30 dB
- Adjustable dynamic from 25 to 90 dB
- Cineloop sequence adjustable up to 10 seconds:
 - Real live image quality
 - Post processing tools available
- Image storage limited to PC hard disc capability
- Unlimited number of measurements: callipers, areas, angles, markers, comments

Eye and Orbit B-scan probe

- Transducer frequency: 10 MHz
- Scanning angle: 50°
- Depth: 20 to 60 mm
- Focus: 25 mm
- Axial resolution: 200 µm
- Lateral resolution: 600 µm

Optional anterior segment high frequency probe

- Closed Probe -transducer is not exposed
- Transducer frequency: 20 MHz
- Scanning angle: 50°
- Focus: from 8 to 10 mm
- Axial resolution: 80 µm
- Lateral resolution: 160 µm

Optional posterior segment high frequency probe

- Closed probe - transducer is not exposed
- Transducer frequency: 20 MHz
- Scanning angle: 30°, 50°
- Focus: 25 mm
- Axial resolution: 100 µm
- Lateral resolution: 250 µm

Biometry

- Up to 10 A-scans saved per eye
- Immersion or contact technique
- Solid biometry probe with internal fixation light fits on tonometer holder
- Probe frequency: 11 MHz
- Depth: 60 mm
- Points on X axis: 2048
- Electronic resolution: 0.03 mm
- Levels on Y axis: 256
- Freeze-frame: Manual, Automatic and Auto-Save, with built-in pattern recognition. Adjustments for eye types - Phakic, Dense Cataract, Aphakic and correct velocities for Pseudophakic materials (PMMA, ACRYLIC and SILICONE)
- Velocities: Specific for eye segments (AC, Lens, Vitreous) and can be easily adjusted (such as silicone oil in Vitreous) and other Pseudophakic materials
- Automatic detection of scleral spike
- Measurements: anterior chamber, lens, vitreous and total length
- Statistics: average and standard deviation

IOL Calculation:

- 6 Formulas for normal eyes: SRK-T, HOLLADAY, HAIGIS, HOFFER-Q, SRK II, and BINKHORST-II
- 6 Formulas for post-refractive eyes ("Keratometry Correction" - Pre-Operative Data Dependent):
 - Pre-Op Keratometry and Pre-Op Refraction: Double K / SRK-T and History Method
 - Pre-Op Refraction only: Refraction Derived
 - Pre-Op data is not available: Contact Lens Method, Shammas Regression and Rosa Regression
- Unlimited IOLs files for each user
- 4 different IOL's calculated on screen
- 7 values bracketed for desired ametropia for each IOL
- IOL calculations in choice of .25D or .50D

Connection to PC

- USB-2 connection to a PC
- Specific software drives the communication with the acquisition module
- Picture, data and controls appear on-screen

Documentation

- The images and notations are saved within a patient database
- Possibility to print the reports on the printer connected to the PC and controlled by "Windows-XP"
- For better quality B-Scan image retention, photo quality paper is recommended

Electrical Requirements

- Power supply: 100 to 240 Vac +/- 10% single phase + earth
- Frequency: 50 - 60 Hz
- Power: 50 VA max

Physical Characteristics

- Global size: 17 cm (W) x 19 cm (D) x 19 cm (H)
6.7" (W) x 7.5" (D) x 7.5" (H)
- User interface touch screen size: 86 mm (W) x 115 mm (H)
3.4" (W) x 4.5" (H)
- Weight: 1.5 kg (3 lbs)

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