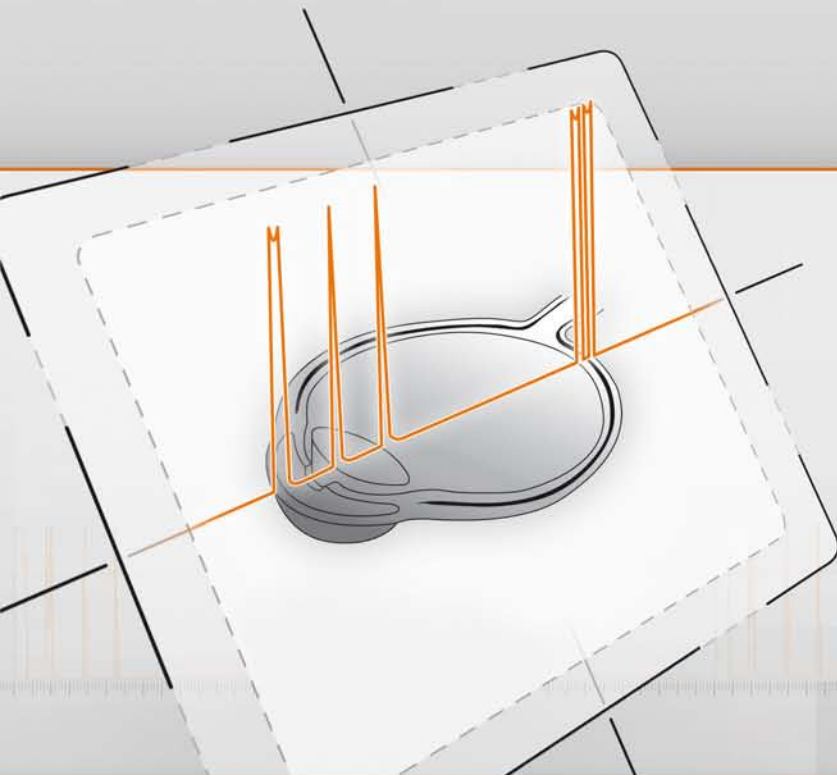


Axis NanoTM

The Ultrasound
Biometer



A-scan & IOL calculation



Axis Nano™

Quantel Medical's cutting edge technology in ultrasonography has brought constant and multiple innovations to ultrasound specialists worldwide since 1993. Axis Nano™ is a high precision A-scan system able to measure all eye types and integrating the latest IOL calculation formulae.

■ Small in size, huge in performance

Weighing 125 g (0.28 lbs), Axis Nano™ is the smallest biometer in its category.

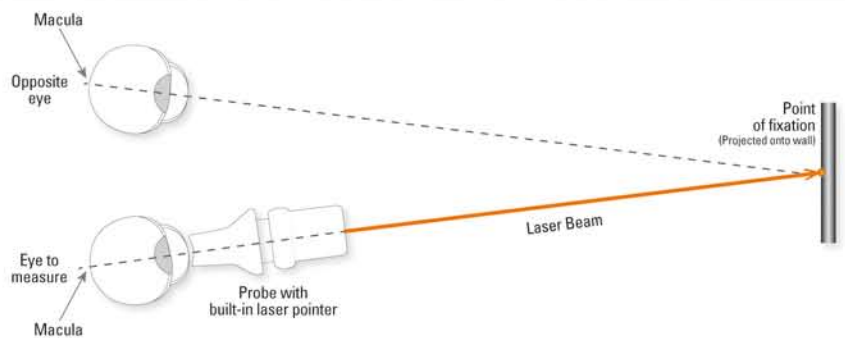
Axis Nano™ incorporates much of the Axis II's acclaimed characteristics that provide high accuracy in axial length measurement and IOL calculation and set the standards of ultrasound biometry.



■ Enhanced patient cooperation and comfort

Quantel Medical's optional ProBeam™ is a biometry probe with built-in laser pointer that permits automatic focusing in the visual axis.

The increased cooperation from the patient makes the examination time shorter and consequently more comfortable for the patient.



■ Easy to use and intuitive user interface

The operator can easily access all functions via the intuitive icons.

It speeds up the axial length capture and IOL calculation.



The Ultrasound Biometer

■ Precision in A-scan and IOL calculation

Ultrasound biometry remains the only technology that allows measurements in all eye types including when dense cataract is present.

With the increasing need for precise axial length measurements for new IOL types, the Axis Nano™ provides high precision A-scan and IOL calculation.

Accuracy is guaranteed thanks to a high signal-to-noise ratio emitter/receiver and adjusted velocities per segment and eye types.

Additionally, the scleral echo discrimination automatically eliminates optic nerve scans.

Together with the contact technique, immersion biometry is also available to avoid any compression of the anterior chamber.

The IOL calculation function allows comparison between different IOL types and calculation formulae:

- 6 formulas for standard IOL calculation
- 6 formulas for post-refractive surgery IOL calculation



■ Mobile Versatility

Axis Nano™ is easy to transport to wherever it's needed.

Axis Nano™ operates under a PC Windows environment and benefits from the power of computer technology. Hence, the storage of users, patients' data and IOL calculation is almost unlimited.

Data transfer and storage is made possible to compatible software thanks to the EMR function.

Axis Nano™ adapts to new practice standards and information transfer requirements.



Axis Nano™

TECHNICAL SPECIFICATIONS

BIOMETRY

Adjustable gain: 20 to 110 dB
Time Gain Control (TGC): 0 to 30 dB

11 MHz Proba

Transducer frequency: 11 MHz
Tip diameter: 7 mm (0.28")
Electronic resolution: 0.03 mm (0.002")
Depth: 60 mm (2.36") on 1536 points
Contact and immersion techniques compatible
Aiming beam: LED or laser pointer ProBeam™*

Axial length measurements

Ultrasound propagation velocity adjustable per segment (anterior chamber, lens, vitreous) and IOL and vitreous material

Built-in pattern recognition: phakic, aphakic, PMMA, acrylic and silicone material for pseudo-phakic eye types

Automatic calculation of standard deviation and average total length (series of 10 measurements)

Acquisition modes: automatic, auto + save, manual

Automatic detection of scleral spike

IOL calculation

SRK-T, SRK 2, HOLLADAY, BINKHORST-II, HOFFER-Q, HAIGIS

Post-op refractive calculation:

- Pre-op and Post-op refraction, Pre-op and Post-op keratometry

- 6 different methods for keratometric correction and implant calculation:

History derived, refraction derived, contact lens method, Rosa regression, Shamma's regression, Double K/SRK-T (Dr. Aramberri's formula)

9 values bracketed for desired ametropia for each IOL (IOL increment steps: 0.25D or 0.50D)

Simultaneous display of 4 different IOL calculations

DATA MANAGEMENT

Built-in physician and patient database

EMR compatible

Compatible with PC and USB video printers

GENERAL INFORMATION

Electrical requirements

Power supply: 100-240 Vac ± 10% single phase without earth
Frequency: 47-63 Hz
Power: 70 VA max

Features

Overall dimensions: 15 cm (W) x 7 cm (D) x 2 cm (H)
5.9" (W) x 2.8" (D) x 0.8" (H)
Weight: 0.125 kg (0.28 lbs)

Peripherals and accessories

Mouse with USB connection*
Gain potentiometer with USB connection*

Computer features

Processors: Intel® Atom™ CPU 2600
Memory: 1024 MB RAM
Hard Drive: 320 Go
Operating system: Windows 7 Starter 32-bit
Display: 10.1" (25.7cm) WSVGA (1024x600) backlit LED
Integrated Intel(R) Graphics Media Accelerator 3600 Series

* Option

Specifications are subject to change without notice.

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