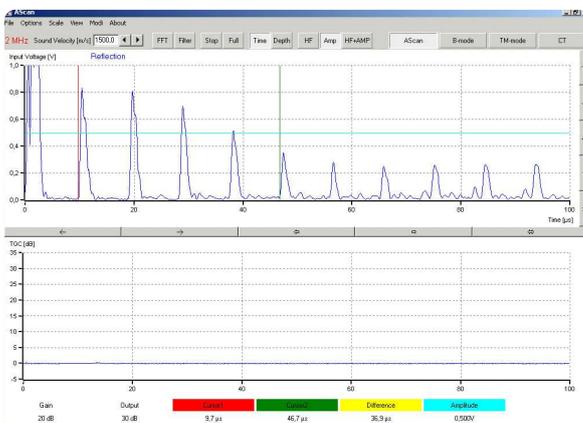


Ultrasound Eye Dummy Scientech 11E is used in ophthalmology (ophthalmology is a method for diagnosis of diseases in the eye.) for measurement of distance of Retina and Cornea. The distance between Retina and Cornea is measured by A-Scan Mode. By using A-Scan mode we can also measure depth of Retina and Cornea and also do analysis of thickness of lens.

Features

- Easy to use
- Specially designed for educational purpose
- Real time ultrasound imaging in A-Scan
- Software for analysis and post processing measurements
- Capable to show all structures of eye in A-Scan
- Standard frequency A-Scan ultrasound transducer
- Micro controller based electronic design

Software window



Technical Specifications

Eye phantom:

- Time in 10S : Front of Lens (13,7sec.)
Back of Lens (21,1sec.)
Retina (74,8sec.)
- Average Velocity : 1518 m/s (Acqueous/Vitreous Humour)
- Measured depth in mm : Front of Lens (11,9mm)
Back of Lens (15,9mm)
Retina (42,5mm)
- Real depth in mm : Front of Lens (9,66mm)
Back of Lens (18,91mm)
Retina (56,77mm)
- Thickness/Distance in mm : Front of Lens.(9,66mm)
Back of Lens (9,66mm)
Retina (9,66mm)
- Eye phantom : lens and vitreous body at scale 1:3

Echoscope

- Measuring Modes : Reflection And Transmission
- Transmission level : 0 -30 dB
- Gain : 0-35 dB
- TGC : 0-30dB, Threshold, slope, wide,start
- Output : Trigger, TGC, RF Signal, A- Scan
- PC interface

Ultrasonic probe

- Probe Frequency : 2MHz