

# Keeler Accutome 4Sight

Four in one ophthalmic ultrasound diagnostics





Keeler have a century of experience in optics. We have been manufacturing ophthalmic instruments since 1917 and continue to lead the market today with our innovative instruments. Plus for over 30 years Accutome has built a reputation for high quality, reliable and reasonably priced ophthalmic diagnostic equipment. Keeler have joined forces with Accutome to bring you the 4Sight®.

### Designed for you

The 4Sight® is made in the USA and designed with eye care professionals in mind. It provides a single solution for ophthalmic diagnostics by combining an A-Scan, B-Scan, UBM and Pachymeter in one, easy-to-use platform.

### Built to last

We realize the demands on today's busy clinics and designed the 4Sight® to meet those needs, by delivering a high value product that is accurate and efficient.



## Contents

Keeler Accutome 4Sight® .....	p2-3
A-Scan .....	p4-5
B-Scan .....	p6-7
UBM.....	p8-9
Pachymeter.....	p10-11
4Sight® Further Information.....	p12-13
Technical Help.....	p14
Contact Information .....	p16



### High Value Workstation

- Single solution for all ophthalmic ultrasound imaging at an affordable price
- High quality with industry-leading warranty and service programs
- Live help and dependable support for the life of the product

### Accuracy

- Proprietary signal processing
- Industry leading clinical accuracy
- Unsurpassed image quality

### Efficiency

- Single point-of-use technology for all ophthalmic diagnostic imaging needs in an ergonomic portable package
- Intuitive user interface for a rapid and smooth learning curve
- Easy data transfer between modalities and higher patient throughput
- DICOM<sup>SM</sup> Worklist compatible

# See it from every angle

A single solution for ophthalmic diagnostics by combining an A-Scan, B-Scan, UBM and Pachymeter in one, easy-to-use platform.



A-Scan



B-Scan



UBM



Pachymeter

## 4Sight® Technical Specifications

Weight	3.18 Kg
Dimensions	381 mmH x 50.8 mmD x 279.4 mmH
Screen	Touchscreen
External connections	HDMI and ethernet
Modality worklist	Integrated DICOM <sup>SM</sup>
USB	5 USB ports
Probe connections	A-Scan and Pachymeter

Part Number 24-8000 4Sight®



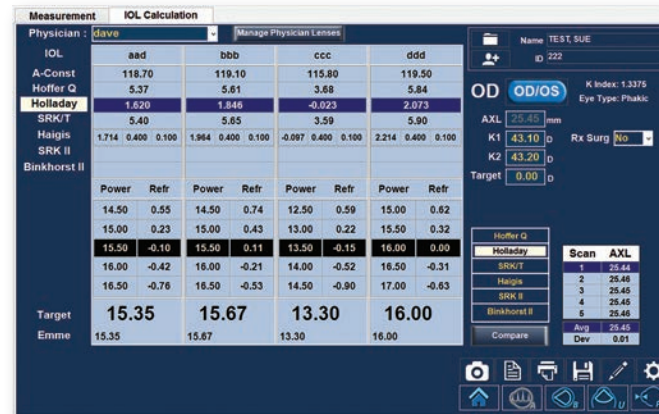
# A-Scan



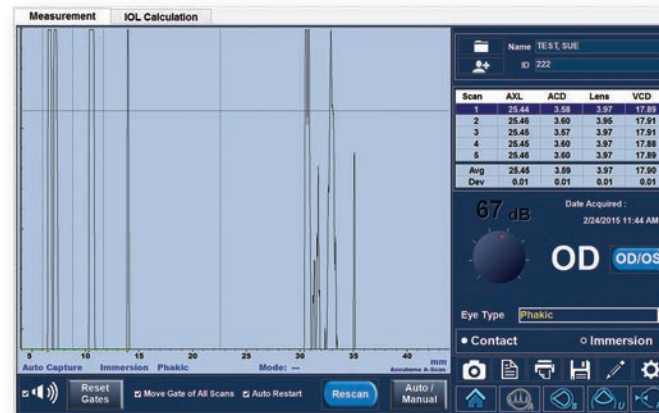
## Features

- Immersion and contact modes
- Industry leading resolution
- User-friendly interface
- Less patient chair time - faster measurement capture\*
- Automatic alignment detection and sclera recognition eliminate marginally aligned scans
- Share information easily - adaptable document transfer via EMR, email or printer
- Modern third and fourth generation formulas including the Hoffer®Q, SRK/T, Holladay, Haigis, SRK II and Binkhorst II as well as new post refractive formulas
- Optimised lens constants for superior surgical outcomes
- Streamline your patient data - patient data is passed between modalities for quicker patient flow

\* When compared to original A-Scan Plus.



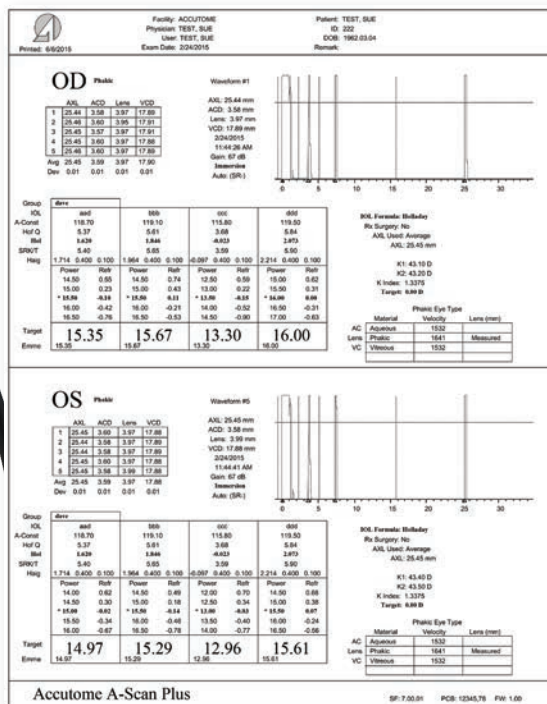
A-Scan IOL Calculation Screen



A-Scan Measurement Screen

The A-Scan is the single most effective solution for measuring and calculating all of your patients and refining your surgical outcomes.





A-Scan Report

## A-Scan Module Technical Specifications

Weight	2.23 g
Dimensions	44.45 mm L x 5.08 mm W
Methods	Immersion or Contact
Default eye type settings	Phakic, Dense Cataract, Silicone Filled, Pseudo PMMA, Pseudo Silicone, Pseudo Acrylic, Aphakic
Custom eye type settings	Possible
Measurements	ACD, Lens thickness, VCD, Axial length
Capture modes	Automatic or Manual
Frequency	10 MHz

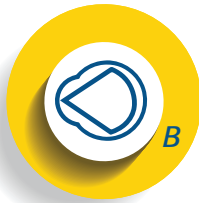
Electronic resolution	0.016 mm
Clinical accuracy	0.01 mm
Data points per Waveform	4096
IOL formula	Hoffer Q, Holladay I, SRK/T, Haigis, SRK II, Binkhorst II
Post refractive formula methods	Clinical history, Contact Lens, Shammas Clinical, Entered
Report/Image export	PDF, JPEG, PNG, GIF, TIFF, BITMAP

"The 4Sight® unit is doing so well, the eye clinic is very happy with it, they say it works like a dream."

Distributor, South Africa

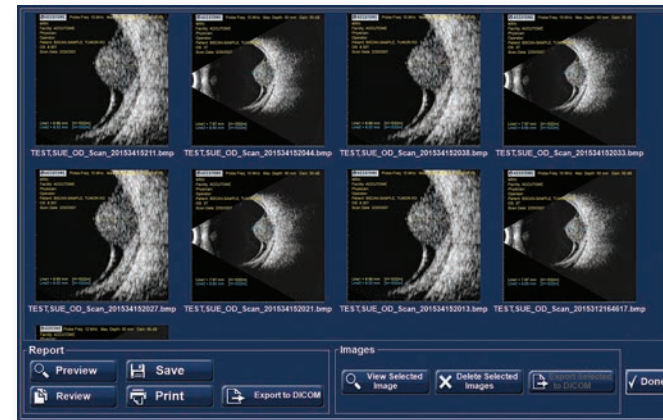


# B-Scan

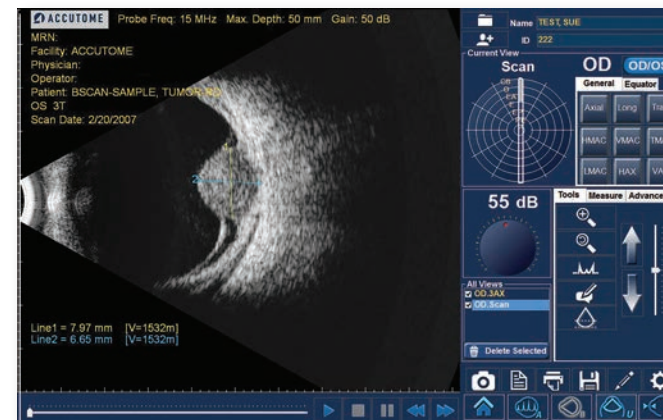


## Features

- Image is everything - the 0.015 mm resolution is among the highest in the medical industry
- State-of-the-art probe design gives sharper, more focused images due to the elimination of signal loss
- Unsurpassed data analysis - contains 12 useful measuring calipers
- "Smooth Zoom" technology gives 2x full image zoom without distortion of real-time or captured scan
- Portable - use with the 4Sight or any Windows based laptop or PC
- Unlimited film loop recordings so you never miss an image
- Adaptable document transfer via EMR, email or printer means that you can share information easily
- Master in minutes - the user-friendly interface makes user manuals and quick start guides unnecessary

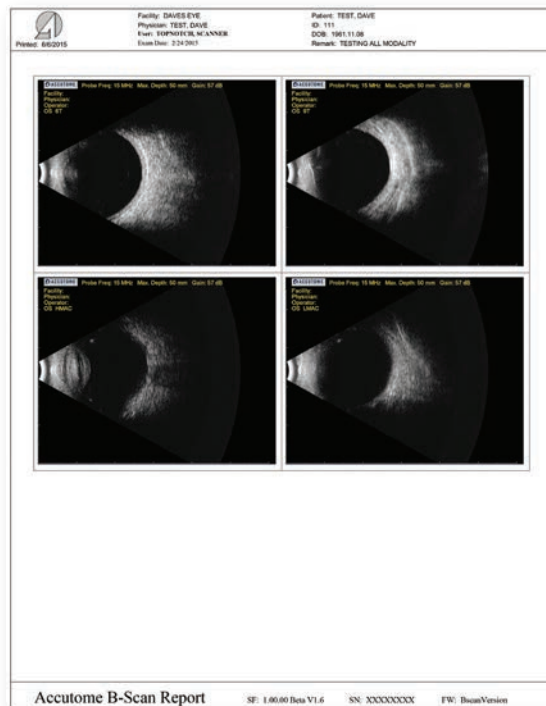


B-Scan Report Function Screen



B-Scan Measurement Screen

The B-Scan Plus® proprietary software combined with unique probe electronics makes it the premier, portable high definition B-Scan.



B-Scan Report

## B-Scan Module Technical Specifications

Weight	0.17 Kg
Dimensions	177.8 mm L x 31.75 mm W
Frequency	12 or 15 MHz
Axial resolution	0.015 mm Electronic
Lateral resolution	0.085 mm Electronic
Adjustable gamma	Linear, S-Curve, Log, Colour
Scanning angle	60°
Sampling rate	2048 (points per line)
Time gain control	Yes
Zoom	2x optical zoom
Report/Image export	PDF, JPEG, PNG, GIF, TIFF, BITMAP
Maximum number of frames per scan	256
Measuring calipers	12 measuring calipers (6 lines, 2 areas, 2 angles, 2 arrows)

"You have been so great  
and such a pleasure to  
work with time after time.  
Thanks for all you do to make  
my job easier and my budget  
spread further."

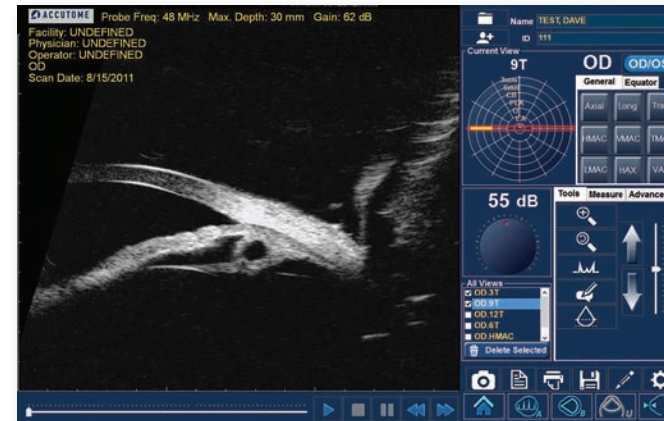
Administrator, Atlanta,  
Georgia, USA

# UBM



## Features

- High definition imaging shows detailed structure definition including cornea, iris, ciliary body, zonules, crystalline lens and intraocular lens as well as pathologies
- State-of-the-art probe design gives sharper, more focused images due to the elimination of signal loss
- Unsurpassed data analysis - the UBM contains measuring tools. Useful for measuring sulcus-to-sulcus, anterior chamber depth, positioning of intraocular lenses and filtration angle of the eye
- Portable - use with the 4Sight® or any Windows based laptop or PC
- Unlimited 34 second film loops mean you will never miss an image
- Share information easily with adaptable document transfer via EMR, email or printer
- Protect your investment - easily upgrade software
- Master in minutes - the user-friendly interface makes user manuals and quick start guides unnecessary



UBM Screen

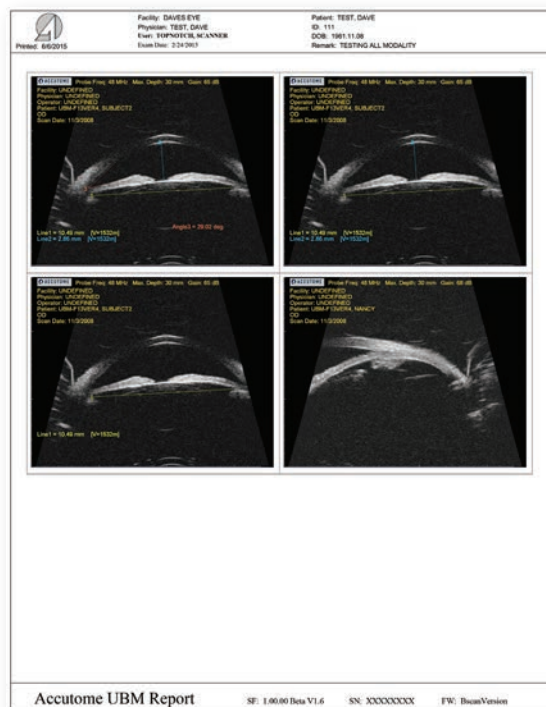


UBM Report Function Screen

Keeler Accutome's UBM Plus® is used for anterior segment imaging.

The revolutionary design combines the latest technologies with unsurpassed image quality.





UBM Report

## UBM Technical Specifications

Weight	0.17 Kg
Dimensions	177.8 mm L x 31.75 mm W
Frequency	48 MHz
Axial resolution	0.015 mm Electronic
Lateral resolution	0.05 mm Electronic
Adjustable gamma	Linear, S-Curve, Log, Colour
Scanning angle	30°
Sampling rate	2048 (points per line)
Time Gain Control	Yes
Zoom	2x optical zoom
Report/Image export	PDF, JPEG, PNG, GIF, TIFF, BITMAP
Maximum number of frames per scan	256
Measuring calipers	12 measuring calipers (6 lines, 2 areas, 2 angles, 2 arrows)
Connection	USB cable with power isolator

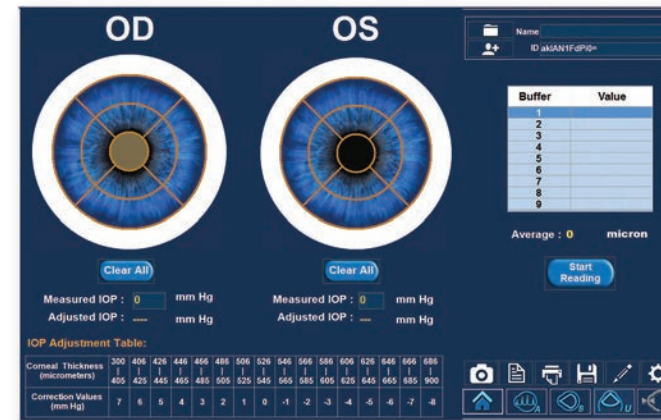


# Pachymeter

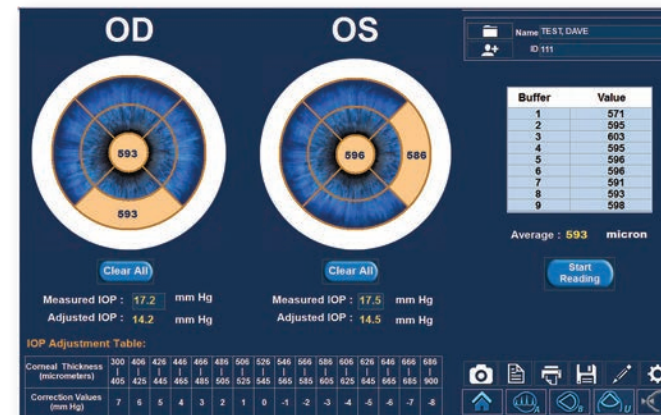


## Features

- IOP correction calculation converts IOP measurements in seconds
- Easy-to-use interface
- Gentle touch probe
- Accuracy +/- 5 microns
- Innovative user interface
- 9 measurement areas per eye
- Increase workflow and efficiency
- Sampling rate of 65 MHz

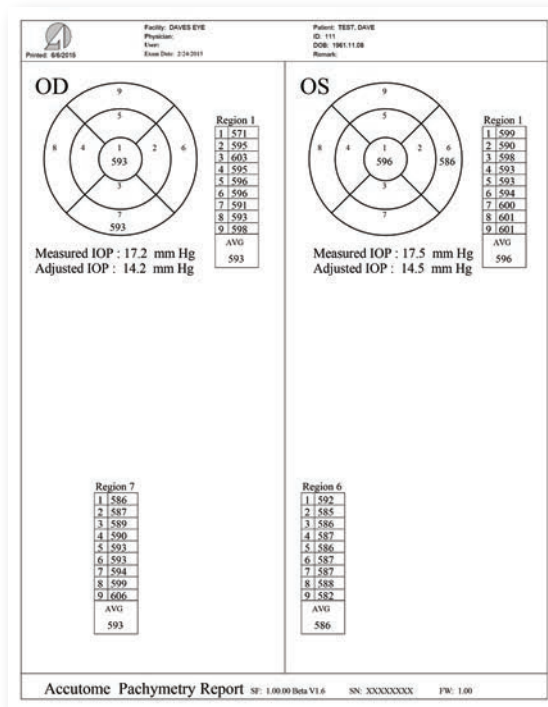


Pachymeter Screen



Pachymeter Screen with Reading

The Keeler Accutome 4Sight® Pachymeter has Digital Signal Analysis, which offers outstanding accuracy and repeatability.



Pachymeter Report

## Pachmeter Probe Technical Specifications

Weight	19 g
Dimensions	44.45 mm L x 5.08 mm W x 2.5 mm diameter
Accuracy	±5μ
Sample rate	65 MHz
Measurement range	300-999 μ
IOP adjustment	Automated

"We loved the viewing screen on the 4Sight.®

The software is so much more user friendly."

"We do some astigmatic correction in the office (limbal relaxing incisions) and we do pachymetry on all quadrants of the cornea, so that is why we loved the pach screen with the quadrants showing.

We also had great customer service! Every one of our questions was answered thoroughly and quickly."

Certified Ophthalmic Technician, Florida



## How does 4Sight compare?

Below you can see how Keeler Accutome's 4Sight® performs against the competition.  
Please contact an Accutome representative or your local distributor for more detailed information.



Features	4SIGHT	Company X	Company Y	Company Z
Portable	★	★	★	
Touch Screen	★	✎	★	
Modular Design Ability to add probes	★	✎	✎	✎
Multi-use Probes can be used with unit or PC	★			
DICOM <sup>SM</sup> Standard with purchase	★	£	£	£
Warranty Standard 3 year warranty	★	✎	✎	✎

## Keeler Accutome Diagnostics Worldwide Distribution Map

### 4Sight® Accessories

- Wireless mouse
- Wireless keyboard
- Probe holders (on the back of the unit)
- Power supply
- A-Scan immersion shell
- Manual
- Quick reference guide
- Test blocks (A-Scan)
- Foot switch

### 4Sight® Optional Accessories

- Original B-Scan table top probe holder
- Original UBM table top probe holder
- Ergotron mounting arm (for wall and table mounting)







# Keeler

ACCUTOME®

## For all of your ophthalmic needs

### Keeler Accutome Surgical

Diamond knives, steel knives, sutures and handheld surgical instruments.

### Keeler Accutome Clinical

Office medications and supplies.

### Keeler Accutome Diagnostic

A-Scans, B-Scans, Pachymeters, Tonometers and UBM.

### Keeler Accutome Repair Centre

- Quick turnaround for most brands of diamond knives and handheld instruments
- Diagnostic equipment

## Technical Help



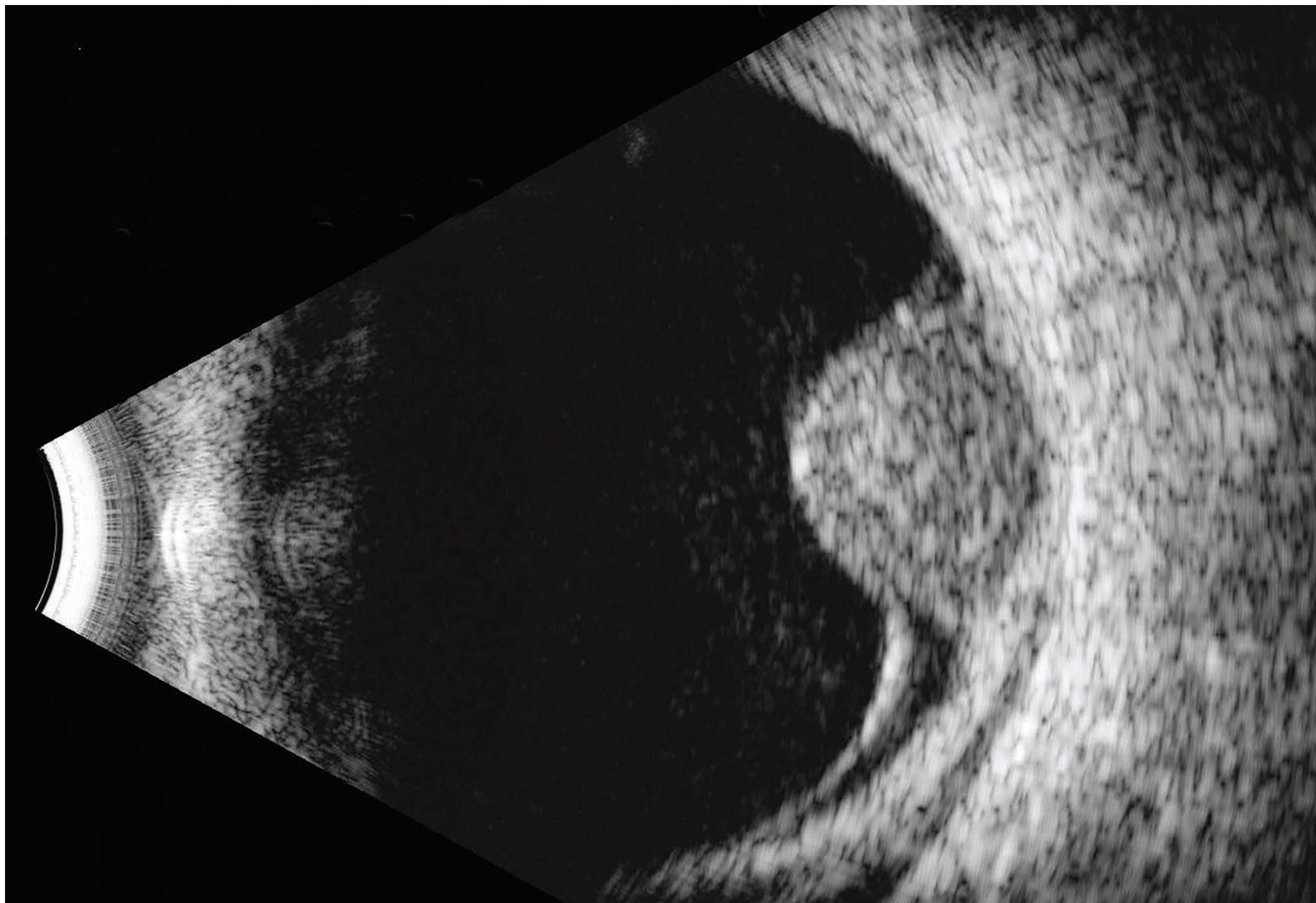
For technical assistance on Keeler Accutome products please call +1 610 889 0200

from outside the USA and Canada.

or call toll free on (800) 979 2020

from inside the USA and Canada.

Alternatively please email [info@accutome.com](mailto:info@accutome.com)



Contact us today for further details or a demonstration

#### More Keeler Instruments

For a century we have manufactured top quality precision ophthalmic instruments.

View our full range at  
[www.keeler.co.uk](http://www.keeler.co.uk) | [www.keelerusa.com](http://www.keelerusa.com)

#### For further info or to order call:

UK: +44 (0)1753 857177	China: +86 10 512 61868
USA: +1 610 353 4350	India: +91 22 6708 0400
UAE: +971 52 9022130	Brazil: +55 11 4302 6053

#### For technical assistance please contact:

Accutome International : +1 (610) 889 0200  
From inside the USA and Canada call toll free on (800) 979 2020  
Email: [info@accutome.com](mailto:info@accutome.com)  
View the full range of Accutome products at [www.accutome.com](http://www.accutome.com)

Distributed by: