



CLEARLY SEEN SOLUTIONS.

17" HD TOUCHSCREEN



New design and style with 17" HD Touchscreen technology. Latest IOL calculation formulas and high definition B-SCAN and UBM images. The complete diagnostic workstation.

# Main features

- B-Scan / UBM;
- Biometry;
- Pachymetry;
- Diagnostic A-Scan;
- A-Scan on B-Scan;
- IOL calculation (post-refractive formula);
- **3D** reconstruction;
- **1**7" HD Touchscreen;
- All-in-one.



# ERGONOMIC AND EASY-TO-MANEUVER HEALTHCARE CART



35/50 MHz Gainc 105 dB 35/50 MHz Gain: 105 dB 42: 0.09 mm

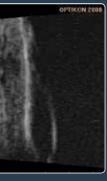
OPTIKON 28

OPTIKON 200

The remarkable detail of the image enables viewing of a LASIK flap (on the left) and a choroidal trauma (on the right).



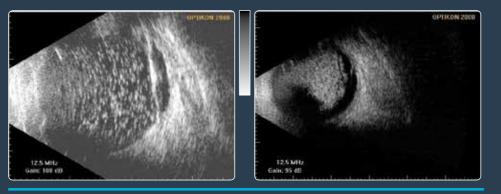
3D viewing allows dynamic observation from every angle and navigation through acquired images. An IOL (on the left) and ciliary bodies (on the right).





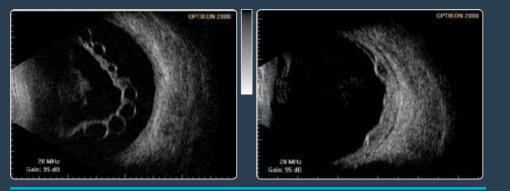






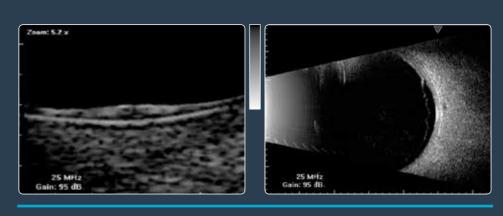
# 12 MHz probe

High gain mode enables extremely detailed analysis of the vitreal heterogeneity and corpuscles.



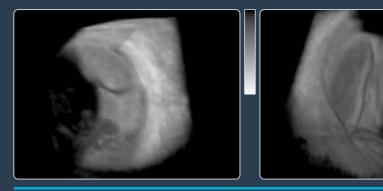
## 20 MHz probe

The high resolution of this probe allows to accurately study cysts in the posterior segment (on the left) and a choroidal melanoma (on the right).



# 5 MHz probes

Designed to get the best image of the retinal tissues and ocular fundus. A macular hole (on the left). Retinal tear caused by posterior vitreous detachment (on the right).



3D images with 12 MHz, 20 MHz and 25 MHz probes 3D ultrasonography of the posterior segment shows the actual dimensions of a pathological shape. Melanoma of the choroid with bleeding (on the left), melanoma of the choroid (on the right).

## Image managemen

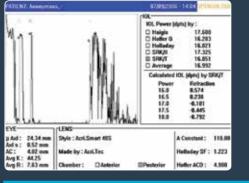
Measures of distances, surfaces and angles on images. Video recording. Unlimited possibilities of storing B-Scan, UBM, biometry, A-Scan and pachymetry images directly in the patient folder.

Posterior detailed and perfect diagnostic images.





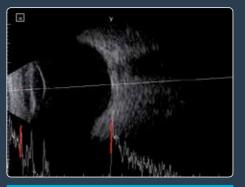




# Image: Constraint of the second of the se

Complete printout of biometric data and IOL calculation.

IOL calculation with post formula.



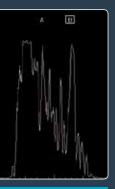
Biometric measurements and IOL calculation on two-dimensional images.

8 MHz probe Unfocused with "S"-shaped amplification curve to measure and diagnose injuries.

# A COSUCE METAL LATEST GENERATION PACHYMETRY, BIOMETRY AND DIAGNOSTIC A-SCAN.



refractive





143200 12 MHz B-Scan probe 143300 20 MHz B-Scan probe



143600 35 MHz B-Scan probe 143500 50 MHz B-Scan probe



149016 25 MHz transducer for B-Scan probe 149014 35 MHz transducer for B-Scan probe 149015 50 MHz transducer for B-Scan probe



143016 Connecting cable for B-Scan probe



149006 Cup for immersion biometry Ø 14 mm 149008 Cup for immersion biometry Ø 18 mm



143011 8 MHz diagnostic A-Scan probe



0SV3180111 HiScan ergonomic cart 144001 HiScan standard cart 142006 Insulating transformer 0.5 KW



149001 Biometry tester



# Signal dynamic

Transducers

Focal distance (probes f Focal distance (probes

> Image defi Image o

Axial resolut Lateral resolut Axial resolut Lateral resolut

Image and

Technical specifications *HiScantouch* 

	BIOMETRY	
PARAMETER SPECIFICATION Model A/B-Scan HiScan Touch Echograph	Probe piezoelectric with fixing light,	
	designed to be mounted on tonometric slide	
Regulatory conformity 93/42/EEC concerning medical devices	Frequency approx. 10 MHz	
Technical standards EN 60601-1; EN 60601-1-1; EN 60601-1-2	Gain adjustable	
FICATIONS	Depth of measurement from 1 to 60 mm	
Storage temperature range: from -10°C to +70°C, Humidity 10 - 100% (non	Electric resolution up to 15 micron	
condensing)	Operating modes phakic, cataract, aphakic, pseudophakic, manual	
<b>Operating</b> temperature range: from +10°C to +35°C, Humidity 30 - 75%	Type of lens PMWA, acrylic, silicone, "user def."	
ONS	<b>Speed</b> preset for each segment or modified by user	
Input voltage 100 V~ - 240 V~	Other settings eye with silicone oil	
Frequency 50/60 Hz	Measurements average of 5 measurements and standard deviation	
Maximum load 100 VA	Measuring methods automatic and manual Calculation formulas SRKII, Haigis, Holladay, Hoffer Q, SRK/T,	
Fuses T1.5 AH	Post-refractive (Camellin-Calossi)	
	PACHYMETRY	
Gain variable, from 0 to 115 dB	Gain up to 130 dB	
TGC software, from 0 to -30 dB	Probe 50 MHz	
nics on "frozen" image from 10 to 80 dB	Measurement range from 100 µm up to 1700 µm	
Contact probes 12 MHz (+/- 2 MHz) 20 MHz (+/- 3 MHz)	<b>Resolution</b> approx. 0.5 μm <b>Clinical accuracy</b> ±5 μm	
Immersion probes 35 MHz (+/- 5 MHz) (only full version)	Maps 10 default + 8 custom	
50 MHz (+/- 5 MHz) (only full version)	Points per map from 1 to 49	
s for immersion probes 25 MHz (+/- 5 MHz) (only full version)	Operating mode auto and manual	
35 MHz (+/- 5 MHz) (only full version) 50 MHz (+/- 5 MHz) (only full version)		
s for posterior segment) 19-24 mm	STANDARD DIAGNOSTIC A-SCAN	
es for anterior segment) 9 - 14 mm	Probe piezoelectric, unfocused	
Scanning angle 30° - 60°	Frequency 8 MHz approx.	
nition (not interpolated) 256 lines x 2048 pixels	Amplification curve "S" curve	
definition (interpolated) 1024 lines x 2048 pixels	Standardization test and calibration performed on tissue-like ultrasound phantom	
Field of view from 20 to 60 mm (1x zoom)	DEVICES AND CONNECTIVITY	
Grey levels 256	HiScan Touch is a PC-based standalone device with Windows operating system. It is compatible with all the devices that	
Echographies black and white, colour	can be connected to state-of-the-art PCs.	
slution (12 MHz probe) 80 micron	CLASSIFICATION OF THE DEVICE ACCORDING TO IEC 60601-1	
Nution (12 MHz probe) 200 micron	Type of protection against electric shocks class l	
Iution (50 MHz probe) 35 micron	Class of protection against electric shocks B	
slution (50 MHz probe) 50 micron	Level of safety of the application in the presence not suitable of a mixture of inflammable anaesthetics	
Electric resolution up to 8 micron		
Database size 500 kByte / exam Measurement capacity distance 1 and distance 2, Angle, Area		
Audible signal yes		
Movie recording yes	WEIGHT:	
d movie export formats JPG, Dicom, AVI	8 Кд	
Standard zoom x1 ÷ x5		
Zoom on window $x1 \div x100$	L x W x H: 190 x 510 x 370 mm	



143001 10 MHz Biometry probe

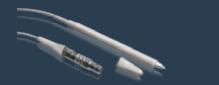


149013 B-Scan probe holder arm



149005 Gel tube, 250 ml (2 pcs)





153005 50 MHz Straight pachymetry probe



149009 B-Scan cups kit for immersion 19/21/22 mm



AMERICA Argentina Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Ecuador Mexico Paraguay	AFRICA Algeria Egypt Morocco South Africa Sudan Tunisia	EUROPE Austria Belgium Denmark France Germany Greece Italy Netherlands Poland Portugal
USA Venezuela		

# **OPTIKEN** Man and Technology

**OPTIKON 2000 S.p.A.** Via del Casale di Settebagni, 13 00138 Rome - Italy www.optikon.com

# CUSTOMER SERVICE

Rome office - Italy Via del Casale di Settebagni, 13 - 00138 Rome ph. +39 06 8888355 - fax +39 06 8888440 e-mail: sales@optikon.com

United Kingdom Czech Republic Russia Spain Switzerland Turkey Ukraine

# MIDDLE EAST

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