

## Keratron™ Onda

A complete diagnostic station used in clinical practice and research to analyze the optical environment of ocular aberration.

Its functions are:

- Corneal Topography
- Ocular, Corneal and Internal Aberrometry
- Pupillometry
- Refraction
- Dynamic Accommodation
- Cataract Densitometry
- Non-invasive break-up time

The Onda's corneal topography function has the same reliability and excellence found in the entire family of Keratron topographers.

Ocular Aberrometry and Refraction can be done under accommodative stress without cycloplegics.

The innovative software is continuously updated to include new refractive investigation features.

The software now identifies the "Strehl ratio", an aberrometric parameter that identifies the sphero-cylindrical correction that yields maximum visual acuity in the presence of higher order aberrations. The Onda's combination of features allows customised ophthalmic correction and full ametropic management.

DATA DISPLAYED ON SCREEN  
OR ON AN EXTERNAL COMPUTER

CONNECTS TO PCs AND PRINTERS  
OVER LAN AND WI-FI NETWORKS

MANAGES VARIOUS INDEPENDENT  
DATABASES THROUGH NETWORK  
CONNECTIONS



TOUCH SCREEN DISPLAY

SENDS TOPOGRAPHIES AS  
ATTACHMENTS TO E-MAILS

CONNECTS TO AN  
ALPHANUMERIC PRINTER

**For more information, please contact your local Opticare Account Manager.**

## Keratron™ Onda

	<b>Model #</b>	OC-IONDA
	<b>Topographical Precision</b>	Ophthalmometer Data (sim-K) within $\pm 0.25D$ on a normal cornea
		BFS (Best Fit Sphere) deviation typically within $\pm 0.15D$
<b>Aberrometry</b>	<b>Analysis Area on the pupil</b>	7x7 mm std (7.3x7.3 mm max)
	<b>Sensor</b>	Microlens Array OPTIKON design
	<b>Spatial Resolution</b>	128 microns ( 2350 points in the maximum pupil)
	<b>Wavelength SLD</b>	840 nm
	<b>Wavelength LEDs</b>	750 nm and 590 nm
	<b>Measurement Range</b>	-20D +10D (@VD=14mm) (sphere) $\pm 10D$ (cylinder)
	<b>Defocus Compensation</b>	-11D +5D (automatic and manual)
	<b>Objective measurement of the patient's accommodative response</b>	From +1D -4D over the defocus
	<b>Zernike polynomials</b>	7th order
<b>Environmental</b>	<b>Storage</b>	temp. range between -10 °C and 60 °C humidity 0-100% (cond. incl.) atm pressure from 500 to 1060 hPa
	<b>Operation</b>	temp. range from 10 °C to +40 °C humidity 30-75% (non-condensing) atm pressure from 700 to 1060 hPa
<b>Electrical</b>	<b>Input Voltage</b>	from 100 to 240 Volts AC
	<b>Frequency</b>	50/60 Hz
	<b>Current Consumption</b>	70 VA
	<b>Fuses</b>	2 x T 1 A (5 x 20 mm)
	<b>Regulatory Compliance</b>	Medical Device Directive 93/42/EEC
	<b>Technical Standards</b>	EN 60601-1:1998; EN 60601-1-1:2000;EN 60601-1-2:2001+A1:2006; IEC 60825-1:1993+A1:1997+A2:2001; EN 60601-1-4:1997+A1:1999