

SHSOphthalmic omniSpect SCL (soft contact lens)

SHSCam (Wavefront sensor)	Refractive data, wavefront, power map – 546 nm ± 10 nm
VCCam (Imaging camera)	Diameter, marks, defect recognition <small>Note: Field of view can be amended according to customer requirements</small>
Diameter	Elliptic fit (min, max, mean) using VCCam
Module “SVC”	BCOR measurement, Sag
Module “CADR”	Computer aided defect rating <small>(operator marks defect, software measures size of defect and judges on pass or fail) Comment: fully autonomous evaluation by software is under development.</small>
Data handling	File based or database communication
System	Anti-vibration table and ergonomic handling Typical table dimensions: ≈ 1800 × 800 × 800 mm³ (W×D×H)
Cuvette	Top load cuvette with filtering and temperature control
PC	Fanless PC (Multicore CPU, SSD harddisk, Gbit LAN, USB3.0)
Monitor	High resolution TFT included, pen display or touchscreen available For high magnification of sample <small>Note: can be amended according to customer requirements</small>
Operating system	Microsoft Windows 7 (32Bit)
Software language	English, German
Verification lens set	Optical standards for system verification
Installation/Training	System setup and training at customers site

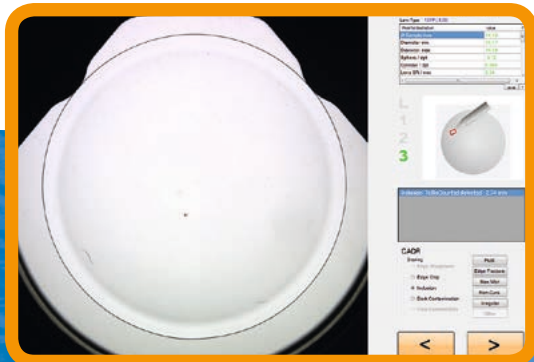
Options

Module “CT”	Low force thickness measurement device
Cuvette	Replacement/spare cuvette
Barcode reader	Integrated barcode reader for input of serial numbers etc.
Customization	Please ask in case of requirements differing from above description

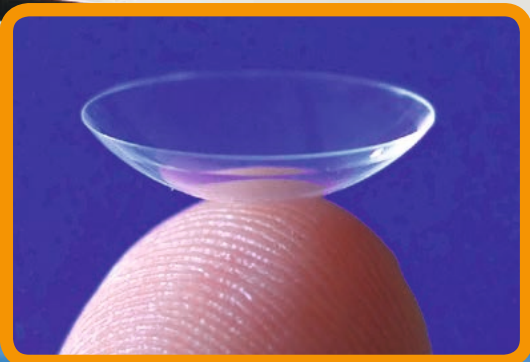
SHSOphthalmic omniSpect

(R)evolution of contact lens testing

Joint Development with  Menicon



13.04.15e



SHSOphthalmic omniSpect

The (R)evolution of contact lens testing

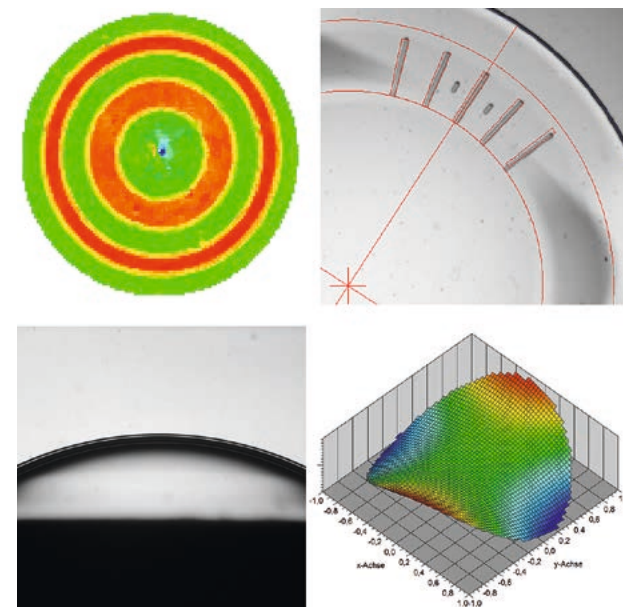
SHSOphthalmic omniSpect

The SHSOphthalmic omniSpect* provides a superior measurement process for contact lenses. It combines the measurement of all relevant parameters in a fast and easy workflow. In the normal working mode the usage is so intuitive that the operators influence on the QC outcome is greatly reduced while the speed of the total measurement is substantially increased. The R&D and administrator levels, however, provide access to many sophisticated functions and customizations.

Extensive internal system checks ensure highest sensitivity, accuracy, consistency and objectivity.

Operator training and qualification is greatly simplified as the software comprises a playback mode for cycling measurements with well-defined results.

* Patent Pending



Measurement categories

Refractive data

- Power, cylinder, axis, prism
- Power map
- Imaging quality

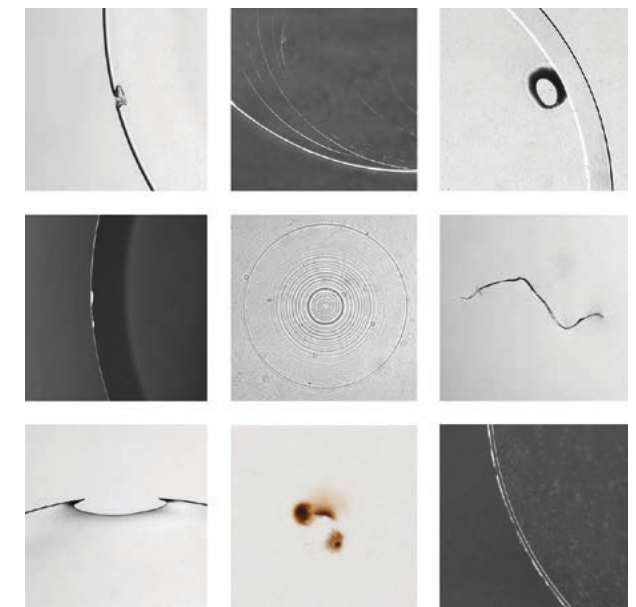
Geometric Parameter

- Diameter
- Base curve (BCOR)
- Center thickness (CT)
- Sag

Imperfections*

- Bubbles, edge defects, scratches
- Lathe grooves, contamination, inclusions, etc.

* CADR (semi-automated)



Multifunctional wet-cell

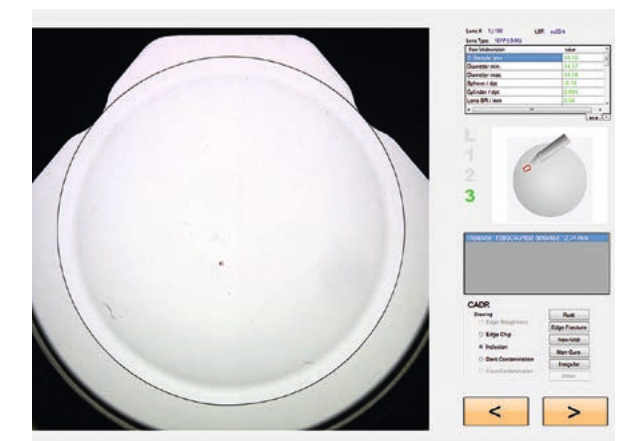
- Safe and easy loading of CL
- Filtering and temperature control
- Highest optical quality
- Easy remove and repositioning
- Reduction of handling steps



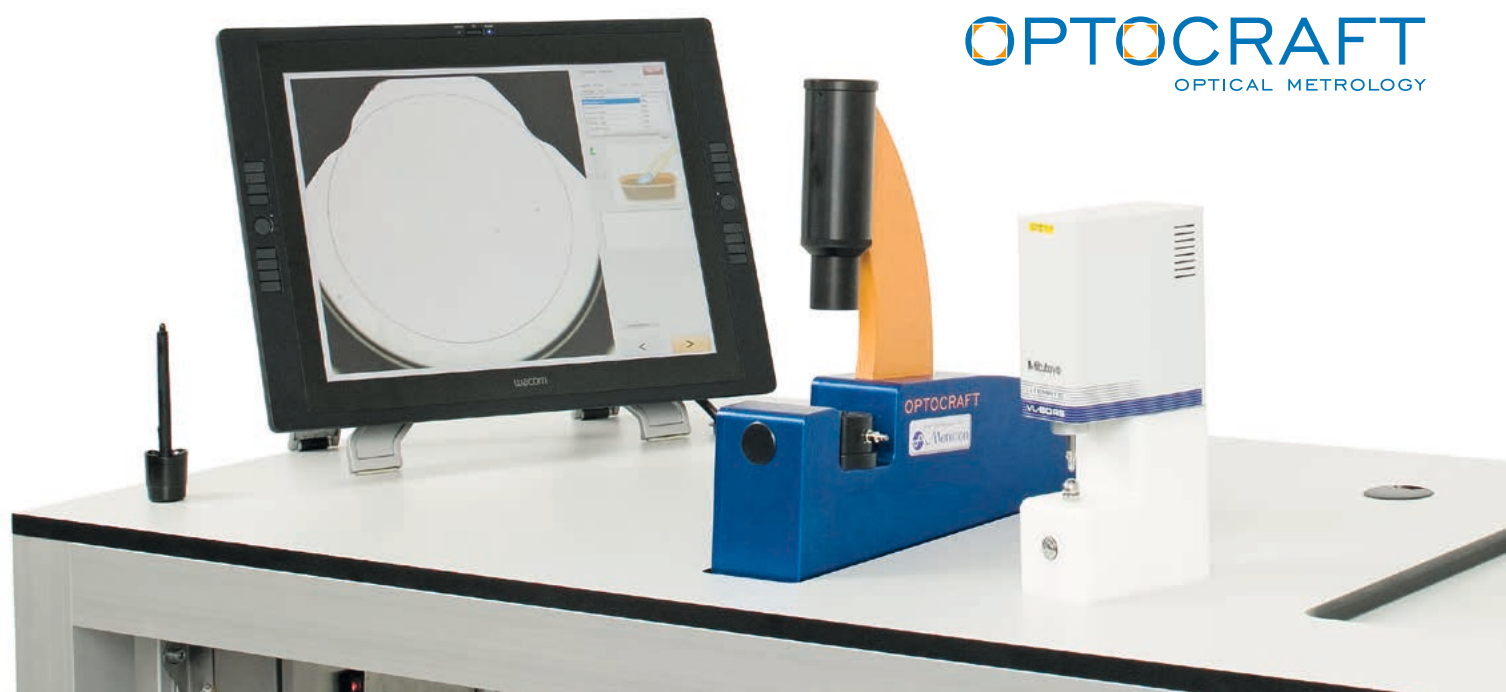
Multifunctional open wet cell

Ergonomic software

All new ergonomic graphical user interface with smart views and controls. Built-in guidance with single process button. Full data file and data based integration available for all-digital data management.



User interface of SHSOphthalmic omniSpect



OPTOCRAFT
OPTICAL METROLOGY