



# SHSOphthalmic cito

Results in the blink of an eye

SHSOphthalmic cito is the powerful and economic standard solution for the measurement of refractive data, diameter and imaging quality of contact lenses in air and in liquid. It is available pre-configured off the shelf – at a very attractive price.

**Benefits:**

- One single device for the measurement of refractive data, image quality and diameter
- Fast and accurate
- Ergonomic design with intuitive, easy to use software
- Efficient and economic operation
- Robust system design

# SHSOphthalmic cito

Technical specification	
Technology	Wave-front sensor and image processing technology Measurement of contact lenses in air and in liquid
Functionality	Measurement of sphere, cylinder, axis, power map, wave aberrations (Zernike) Lens diameter Toric mark detection <sup>a</sup>
Software license	SHSWorks PRO and SHSWorks autoCL
Wavelength refractive data	546 nm ± 10 nm
Sample stage	Manual ergonomic y-stage Low height of sample stage
Lens spherical power	– 30dpt ... +30dpt in air <sup>b</sup>
Lens cylinder power	– 10dpt ... +0dpt in air <sup>b,c</sup>
Field of view	Refractive data: 8.0 mm <sup>d</sup> Lens image: 16.5 mm <sup>d</sup>
Power reproducibility <sup>e</sup>	< 0.02 dpt (1 σ, as measured, lens moved)
Power repeatability <sup>e</sup>	< 0.002 dpt (1 σ, as measured, lens not moved)
Measurement duration	< 0.2 sec (data acquisition, evaluation and display of results)
Dimensions / Weight	≈ 260 × 500 × 560 mm <sup>3</sup> (W×D×H) / 15 kg
Personal Computer	Included; Windows 10 64bit (English or German)
Documentation	CE certificate, quality certificate, user manual, etc.
Accessories	Plano cuvette with V-groove Measurement glass for rigid lenses in air 2 verification lenses (OC reference measurement) Instrument cover

<sup>a</sup> Typical marks implemented as a standard, specific mark types can be implemented upon request, see options

<sup>b</sup> For measurement in cuvette/saline solution this corresponds to a power range of min. – 100 ... +100 dpt (prescription power value), depends on refractive index of the lens

<sup>c</sup> Maximum power in strongest and weakest meridian is as stated in “Lens spherical power”,

<sup>d</sup> ± 3 %,

<sup>e</sup> executed with verification lenses

Options and optional services	
SHSWorks easyGUI	Software license
Barcode reader	Device to read the bar code into an input field
Barcode intelligence	Implementation of an interpretation of the barcode, e.g. for data base access
SQL database connection	Bidirectional data transfer (2 procedures) for in- and output with barcode as key
Custom mark types	Automatic recognition for custom mark type
Verification set	Optical elements (lenses, prism, stop) to check the system status, tweezers, cloth
Plano cuvette	For measurement of lenses in liquid
V-groove	For lens pre-centration in plano cuvette
Measurement glass	For measurement of rigid lenses and verification lenses in air
Installation	Installation of the instrument at customer site
Training	Typical content: operator and/or supervisor training
Service, consulting	Upon specific customer requests beyond standard service/support