

SOLOS Series

Automatic Lens Analyser

Drive Premium Lens Sales with Advanced
Automated Analysis



Automated, efficient lens analyser for full-range lens assessment at the touch of a button.



VERSATILITY

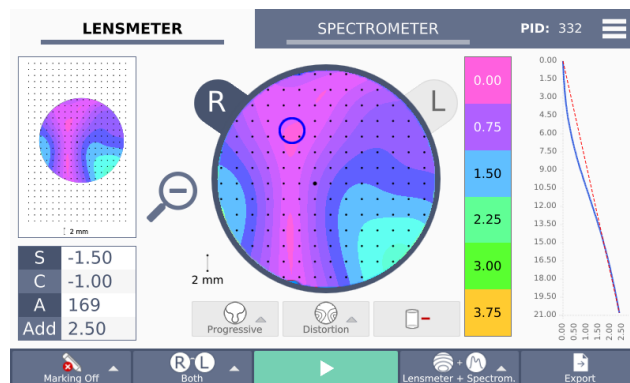
- Seamlessly detect, measure and mark single vision, progressive, and multifocal* lenses.
- Detailed assessment of both glazed and uncut lenses, catering to a range of clinical and optical needs.

ADVANCED LENS INSIGHTS

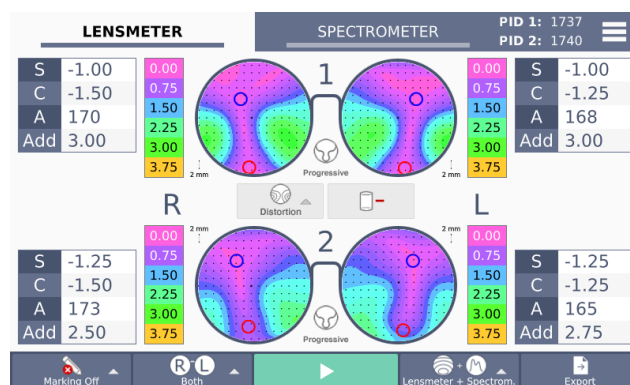
- Comprehensive lens analysis capabilities, including advanced distortion mapping, progressive lens evaluation, and detailed visualisation of lens design characteristics.
- Precise evaluation of light absorption and colour appearance with a full-range spectrophotometer.**
- Provides intuitive visualisation of lens performance and design characteristics, supporting informed recommendations of premium lens options.

EFFICIENCY

- Intuitive, easy-to-use interface delivering efficient operation and rapid onboarding.
- One-touch functionality enables full delegation.
- Seamless data sharing to EMRs, the CV-5000 digital refraction system, or Chronos binocular refraction system.
- Comprehensive PDF reports and visual analytics help explain lens characteristics and support premium lens recommendations at the point of dispensing.



Detailed Lens Mapping



Comparison Environment

* SOLOS and SOLOS Lite are not compatible with trifocal lenses.

** On the SOLOS Lite, only UVA transmittance at a single wavelength is measured (no full-range spectrometer and chromaticity data available)

OVERVIEW



Automated,
One-Touch Operation



Lens Mapping with
Distortion Map



UVA, Blue Light, and Visible
Light **Transmittance**
Measurements**



Automatic
Lens Marking



Automatic
Lens Type Detection



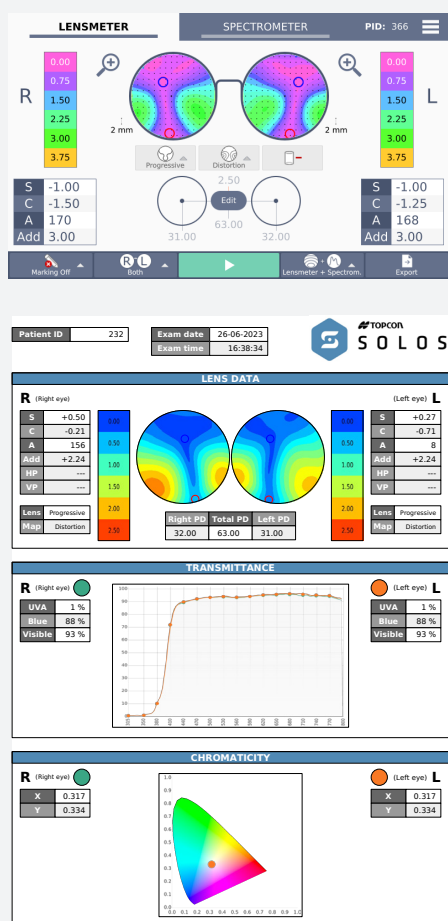
Wireless
Data Transfer



Extended **Measurement**
Range (Up to +/- 20D)



Detailed **PDF**
Reports



Lens Refractive Power Analysis

Featuring

- Automatic detection of optical centres
- Distortion maps highlighting progressive and free-form lens features
- Grid overlays provide an intuitive view of the shown optical map proportion compared to the real dimensions of the customer's lens
- Option to adjust the pupillary distance, both vertically and horizontally, to view prisms
- Toggle between lensmeter and spectrometer data**

Spectacle Lens PDF Report

Features and benefits

- Lens Data
 - Lens type
 - Distortion map
 - Monocular and binocular lens centration distances
- Transmittance**
 - UVA, Blue and Visible Light Transmittance
 - Illustrate adequate protection against harmful UV rays
 - Showcase lens performance for various wavelengths for both prescription lenses and sunglasses
 - Support discussion of blue light blocking lenses
- Chromaticity**
 - Lens colour specified using internationally recognised CIE chromaticity coordinates
 - Verify colour consistency for tinted lenses

INTRODUCING SOLOS LITE

Advanced lens analysis with exact UVA transmittance at a single wavelength. Experience the trusted reliability of SOLOS with our entry-level model.



FEATURES	SOLOS	SOLOS Lite
Fully Automatic Lens Analysis	Yes	Yes
Automatic Lens Type Detection	Yes	Yes
Automatic Pupil Distance Measurement	Yes	Yes
Automatic Lens Marking	Yes	Yes
Comparison maps	Yes	Yes
UVA spectrometer	Yes	Yes
Full range spectrometer	Yes	No

SPECIFICATIONS

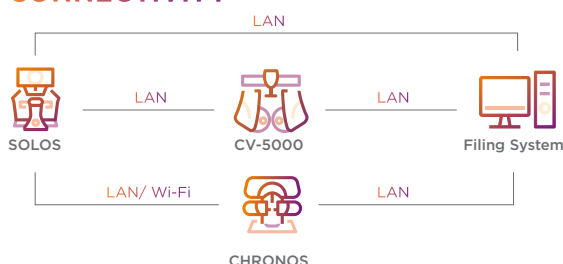
GENERAL DATA	
Dimensions	W245 mm x H450 mm x D354 mm
Weight	Net Weight: 8.0 kg, Cables and user manual: 2.0 kg, Packaging: 3.2 kg
Printer	Internal (thermal)
Screen	7" Touch screen LCD/16M colours
Light source	Green e-line source
Working conditions	10°C to 40°C
Power supply	AC 100 - 240 V — 50/60 Hz
Classification	Class I Medical Device – EU Regulation 2017/745 and US FDA 21 CFR
Standards	ISO 8598
Data output	LAN, Wi-Fi
DICOM connectivity	Encapsulated PDF & Lensometry measurement export, Modality worklist management

MEASUREMENT RANGE	
Sphere power	-20D — +20D (step 0.01, 0.0625, 0.125, 0.25D)
Cylinder power	-10D — +10D (step 0.01, 0.0625, 0.125, 0.25D)
Cylinder axis	0 — 180° (step 1°)
Addition power	-4D — +4D (step 0.01, 0.0625, 0.125, 0.25D)
Prism power	0D — +20D (step 0.01, 0.0625, 0.125, 0.25D)
PD measurement	Mono / Bino
Cylinder notation	- / +

OTHER	
Spectrometer	SOLOS 315nm - 800nm Solos Lite 365nm (single wavelength and no chromaticity)
Automatic marking	Optical centre and axis (framed spectacles or uncut lenses)

MEASURED LENS SIZE		
Single lens	Diameter: 22mm — 80mm	Thickness: up to 22mm
Spectacles	Height: 22mm — 80mm	Wrapping angle: up to 18°

CONNECTIVITY



TOPCON HEALTHCARE UNIVERSITY

Eye Health Education Begins Here: learning.topcon.com
or scan/click the QR code

Note: Subject to change in design and/or specifications without advance notice

IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.
Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.

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