SMARTVISION
IN LINE QUALITY

Advanced Software Suite for any Spectrophotometer

Universal_Standards_Premium

New Software Solution for International Standard compliance tests of Optical Market

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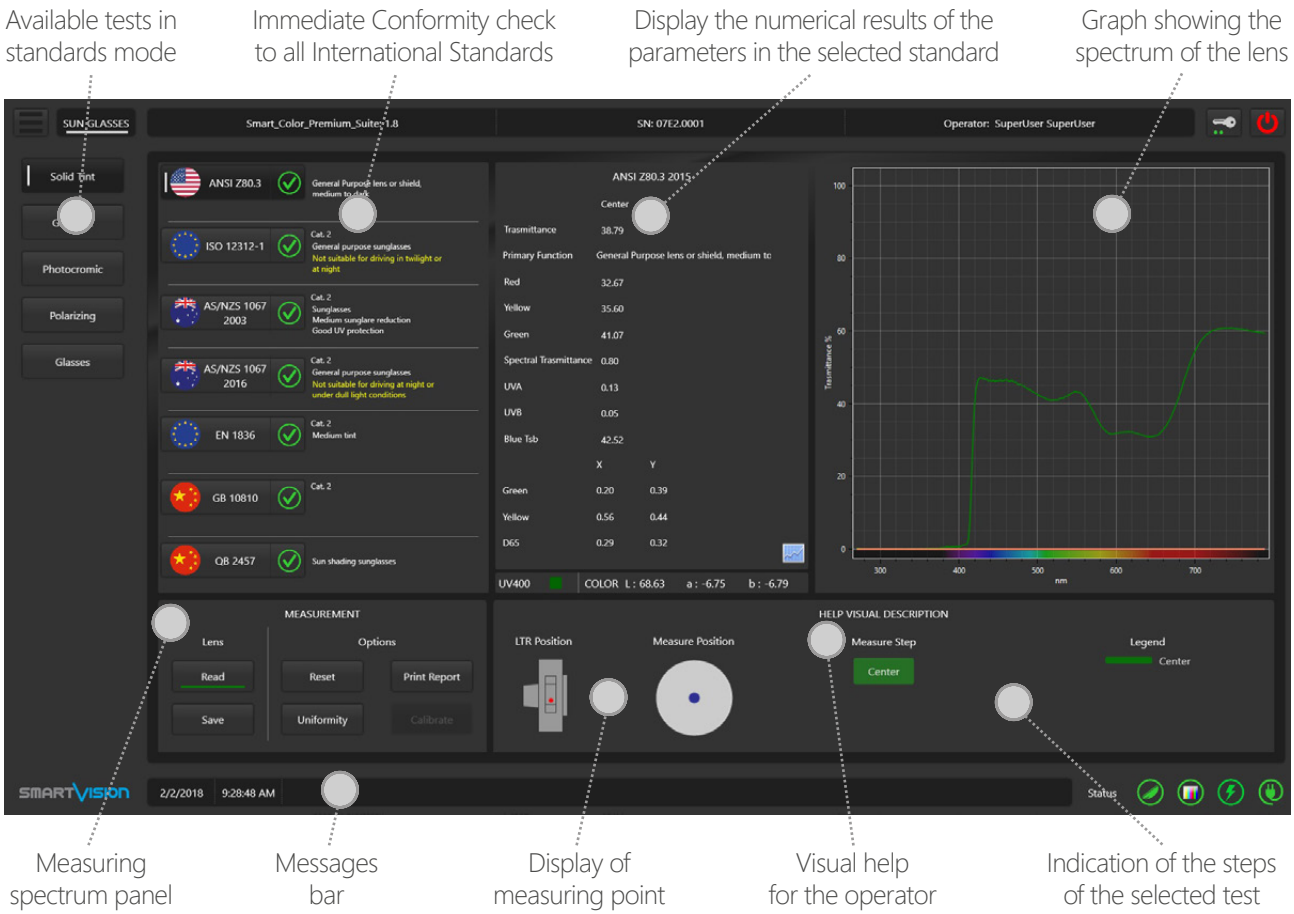


Easy and Fast

Universal_Standards_Premium is an advanced software Suite for spectrophotometers. It is **specifically developed and optimized for International Standards and Color Matching Test** for SunGlasses, SunLenses and SkiGoggles quality controls.

The new revised interface was designed to improve the usability for the operator, while the modern development language guarantees long term support.

Usability

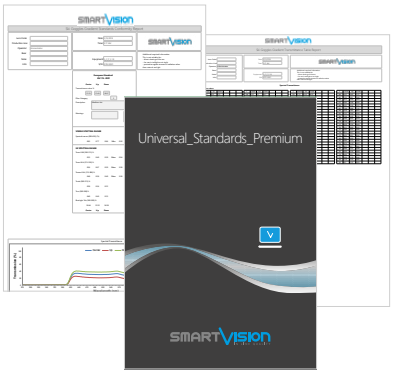
Universal_Standards_Premium can check the transmittance properties according to all updated International Standards and the Color Differences compared to a master lens.

Innovative

The innovative improved interface through a special dedicated visual help allows any unskilled worker to perform easily a conformity check.

Universal_Standards_Premium is also suitable to perform tests on Masks, Goggles and SunGlasses with frame.

New Software features:



- ANSI Z80.3-2015 Update
- AS/NZS 1067:2016 Update
- SkiGoggle mode with EN174 Standard check
- 3D color space visualization
- Extended User Management Feature
- Full Excel and PDF data reports

Features

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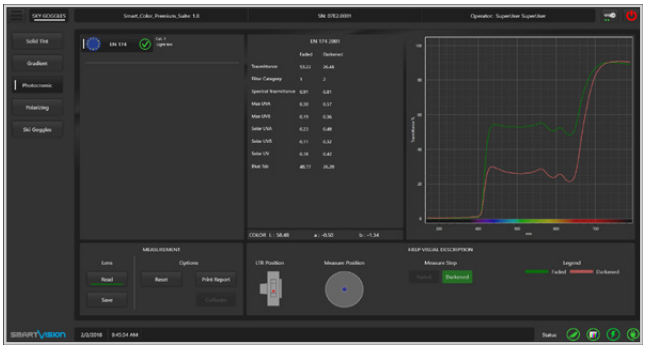
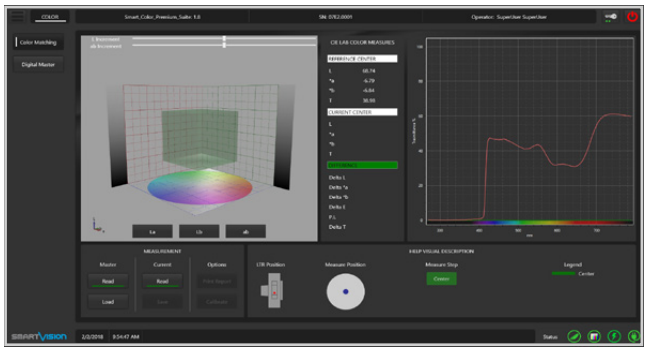
Solid & Gradient

Test to allows users to control solid tint and gradient lens' conformity to the International Standards regarding transmittances properties and their uniformity for SunLenses and SkiGoggles.



Photochromic

Test to allows users to control photochromic conformity to the International standards transmittances properties for lens.

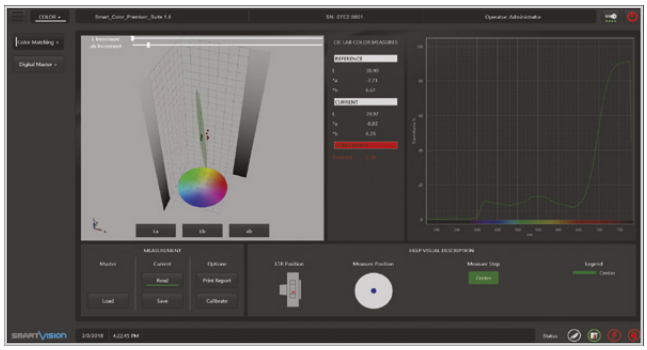


Color Matching

Innovative lens colorimetric measurement. The Lab space described by the green parallelepiped represents the space of acceptability of the lenses by the use of fixed thresholds. The system verifies that lens color is inside the space of acceptability.

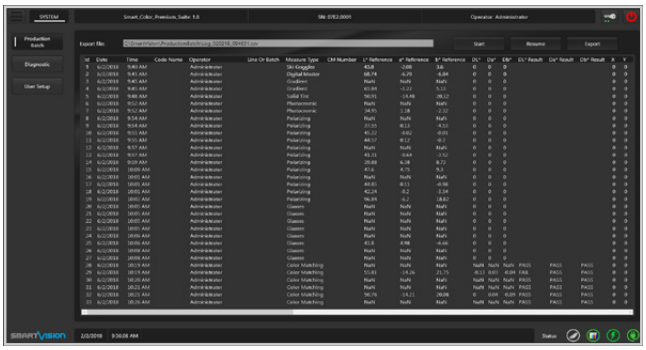
Digital Master

Feature to create Digital Master Models for reference use. It is also possible to save the Digital Master Models directly on the PC for future comparisons with the production of lenses. There is no longer need for physical storage of Master Lenses.



Color +

An innovative feature for the colorimetric control of SunLenses. It has been implemented to overcome the limit of traditional approach based on Lab and DE Testing. The method implemented for designing the Color + allows the system to replicate the human eye, thanks to Artificial Intelligence algorithms.



Production Batch

This feature includes the latest readings with the stored data, at every action the file is automatically updated. It is possible to customize, view, create, export and resume the readings. With an external software is possible to load the files and manage the data.

Features

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Polarizing

Lens conformity check for SunLenses and SkiGoggles.

Production Batch

Conformity check for mounted SunGlasses and SkiGoggles.

Specifications

Main Functions	• Individual « Pass / Fail » lamps for every single national standard • Customizable setting of accepted tolerance of color differences • Digital Color-Master_Item Reference Management (Save & Name, Load Model) • Points out the reason of a failure • One shot color analysis • Display 3D graphics to view the color space, parallelepiped of acceptability and measured points • Display of transmittance curve with color indication for each frequency of light, zoom, pan and display of transmittance values for single wavelength • Full automatic Technical Data Sheet (International Standards and Color report) reports on PDF or direct print • Spectral transmittance values file output • Full automatic Production Batch in Excel file • Remote assistance function
Technical Specification	• Universal_Standards_Premium can read the data from these spectrophotometers: - Jasco - PerkinElmer - Varian Cary • Complete check of transmittance proprieties according to ISO 12312-1; ANSI Z80.3; AS/NZS 1067. • Options: EN 1836; GB 10810.3 & QB 2457-99; EN 174; ISO 8980-3; Uniformity; Photocromatic; Polarizing, Glasses, ColorPlus, SkiGoggle, RX, Aging Test • Transmittance / Spectral Transmittance • Filter category • UV transmittance • Q factors • Signal light recognition for incandescent light (option led light) • Check cycle and full report output in less than 1 second. • Measurement range 280 - 780 nm. • Complete check of color differences ΔE, L*, a*, b* transmittance and Yellowness Index • CIELAB 1976, CIELAB 1994, CIELAB 2000, CMC color spaces with the following settings: - Illuminant Type: A, C, D, F - Observer Degree : 2° and 10° - Color perception index developed specifically for solar filters (P.I.)
Interface Language	Multi Language Dynamic Setup (English, Italian, French, Simplified Chinese already installed)
Data Report	xlsx, xls, pdf
PC minimum requirements	Processor i3 3 GHz Haswell technology, 4GB RAM, 500 GB HD, Video card Direct3D DirectX 11.0 True Color minimum resolution 1920x1080 px. Monitor Full HD. OS Microsoft Windows 7/8/9/10 - 32/64 bit

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