



Fast, Industrial, Automatic & Static

Smart_Polar

Polarization Axis Tester for Optical Industry
According to International Standard ISO 12312-1

About Smart_Polar

Automatic Polarization Axis Tester for Optical Industry



"Smart_Polar checks the Polarized Filters for SunGlasses, Masks and SkiGoggles in accordance to International Standards"

Automatic & Multi-Purpose

Smart_Polar is a complete and automatic **polarization axis tester** for SunGlasses with frame, Masks and SkiGoggles in accordance with the **International Standard ISO 12312-1**.

The spectacles are placed into a structure that simulates a reference headform compliant with the Standard ISO 18526-4:2018 Type 1-M

Fast & Accurate

This polarization axis tester is a very fast instrument, with a prompt **measurements at a record speed** (just 1 sec.), that shows an immediate feedback on the test thanks to a **simple « Pass / Fail » semaphore output**.

Smart_Polar provides **accurate and repeatable measurements** and showing the complete results with values on the screen view. The **report also can be print or exported in excel and pdf files**.

Industrial & Productive

Smart_Polar is a fast, compact, rugged, accurate and **extremely easy-to-use equipment**, without any mechanical movement or adjustment, avoiding operator's interpretation and influence, **designed for hard industrial environment** and heavy duty cycle use, perfect for massive production quality inspection close to the line control or at incoming review.

Easy-to-use

Its intuitive touch screen user-interface makes it easy-to-use even for unskilled workers and **no requirements of specific skills** to perform the tests.

Dedicated All-in-One PC



- Powerful All-in-One PC
- Full HD Touchscreen
- Monitor resolution 1920x1080 pixels
- Height adjustable & tilt swivel rotate position
- Genuine Windows 10 PRO 64-bit
- Pre-installed TeamViewer app Support

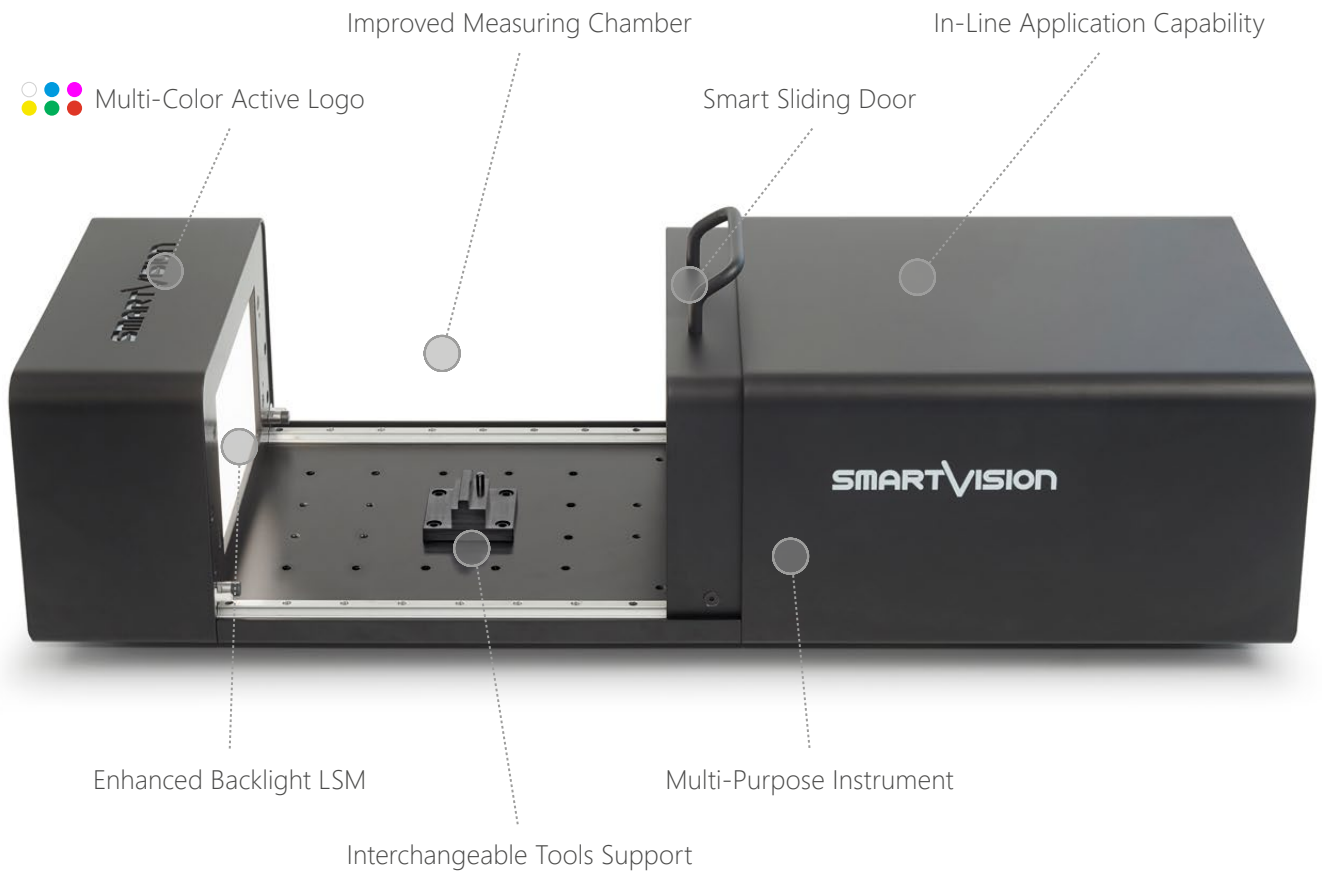
Dedicated Software



- Easy-to-use with an intuitive GUI
- Camera live view for precise positioning
- Customizable setting parameters
- Full automatic data report
- Upgradability for future Standards
- Hardware License Key

Hardware Features

Smart_Polar: Automatic Polarization Axis Tester for Optical Industry



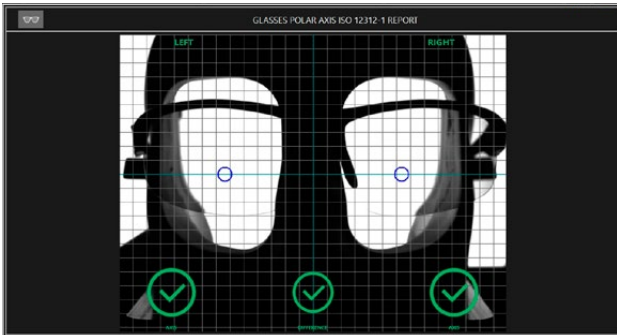
Dedicated Smart Tools

Smart_Polar: Wide Range of Optional Fixing Tools

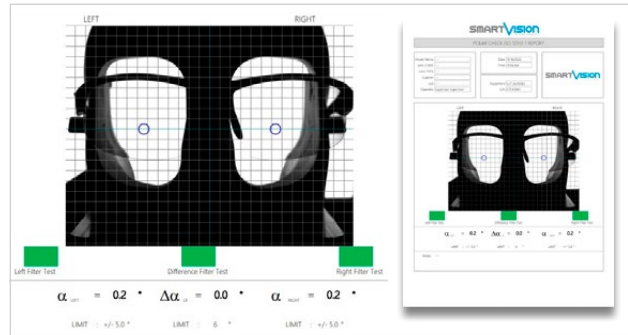


Software Features

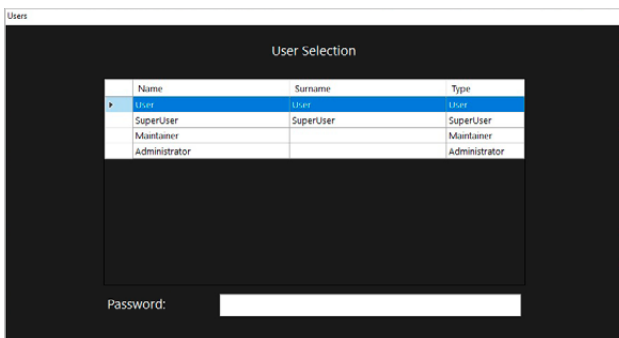
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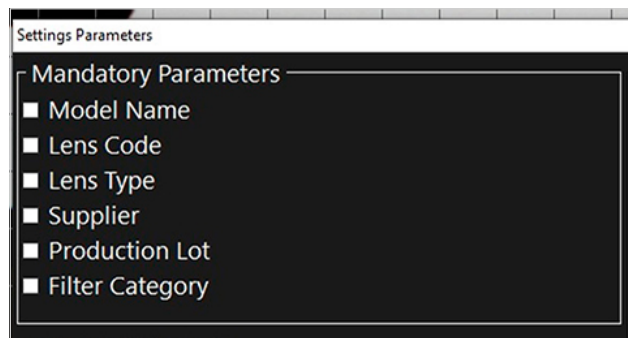
Polar Axis Check: immediate display of « Pass / Fail » test result, including report with all data



Sharing data results: Excel and PDF data reports with complete info on performed tests



Advanced User Management: Managing the system account privileges with four different levels of users



Mandatory Production Data: Possibility to force the operator to enter some parameters before starting test

Technical Specifications

Dimensions (mm)	860x320 H.250 (upper door handle included)
Weight (kg)	20 (excluding PC and tools)
Operation Ambient	+10° to +40° C
Relative Humidity	< 80%
Power Supply & Consumption	110-240 Vac 50-60 Hz 2 A
Communication Interface	USB 3
Case	Black Opaque painted Anodized Aluminum
Optional PC Device	Powerful All-in-One PC, Full HD Touchscreen, Monitor resolution 1920x1080, Windows 10 PRO 64-bit
Software Interface	Language: English
User Management	User, SuperUser, Maintainer, Administrator (with password login and editable rights)
Data Report	xlsx, xls, pdf
Print Report	Windows installed Printer (optional pdf), xps
Statistical Analysis	Ready to connect with SPC software
PC Software Backup	USB stick containing the backup system (bootable system startup)

Features & Benefits

Smart_Polar: Automatic Polarization Axis Tester for Optical Industry

Main Features	Related Benefits
Automatic Polarization Axis Tester	NO intervention of the operator in the test Test according to International Standards
Multi-Purpose Instrument with Wide Range of Tools	Wide range of use/configurations and no need of different equipment
Improved Measuring Chamber	Ergonomic, Fast, Easy accessibility and Tool replacement Full block of External Light
In-Line Application Capability	Capability to 100% check Capable of pass-through line
Smart Sliding Door	Ergonomic, Fast and Easy Operation
Multi-Color Active Logo	Immediate instrument's status feedback according to logo colors
Static, Resistant, Compact, Ergonomic	Save space on site
External PC with Win10 Pro	Worldwide known Windows environment eases operator's approach If SW/HW problems no need to open the instrument, only send the PC
Hardware License Key	Greater flexibility for managing the Software Options remotely Easy-to-use with an intuitive GUI
Dedicated Software	Customizable setting parameters Product upgradability for satisfying future International Standard
Real time live view image	Alignment and orientation of item can be checked visually Image is shown on the reports
Advanced User Management	Security: each user is password protected Access level: each user can only access the functions for which he is enabled Traceability: operator's name is showed in each measurement performed report
Mandatory Production Data	Capability to automatically collect mandatory production data for each test
Full Automatic Data Report	Full automatic Production Batch in Excel file Full traceability of the performed test
Polar Axis Report	Polar Axis Report values file output Full automatic Technical Data Sheet printables reports
Smart support	No need of expensive on-site service Available Support in short time in all the World by TeamViewer app Online operator training Easy setup of SW updates and upgrades
Invented & Designed by SmartVision	Creative Design, Efficient & Flexible Support Based on many years of experience in industrial field and lab
Made in Italy	High Level of Quality and Innovation

Reach Excellence in Quality Control with SmartVision's Technology

