# SMART VISION

## IN LINE QUALITY

*State-of-the-art Spectrophotometer for Pharmaceutical Packaging*

# Smart_Color_Premium Pharma

Fast Industrial Spectrophotometer for Quality Control
of transparent Glass and Plastic items

# Smart_Color_Premium Pharma

## State-of-the-art Spectrophotometer for Pharmaceutical Packaging

*"Smart_Color_Premium Pharma allows automatic, objective, easy and fast Color differences of a wide range of transparent Glass and Plastic items"*

## Easy and Fast

**Smart_Color_Premium Pharma** is the advanced and unique evolution of **spectrophotometers for quality controls**, specifically designed and optimized a wide range of products, including parts of bottles, vials, syringes, ampoules and cartridges, even if transparent.

The revised interface is designed to improve the usability by the operator and the modern development language of its software guarantees **measurements at a record speed (just 1 second)**.

## Automatic and Productive

**Smart_Color_Premium Pharma** checks the **Color Differences** compared to a master items. There is a **simple « Pass / Fail » lamp output**, with no influence by the operator and no requirements of specific skills to perform the tests.

New extended user management features allow an **easier management of production quality controls**.

## Industrial, Compact and Smart

Smart_Color_Premium Pharma is a fast, compact, rugged, static, easy-to-use and easy-to-program device, **designed for harsh environments and heavy duty cycles use**.

Dedicated accessories to improve its usability:
● **"Y-Z Alignment Tool"** ensures accurate and repetitive positioning;
● **Smart Docking Platform** for a best Vertical use.
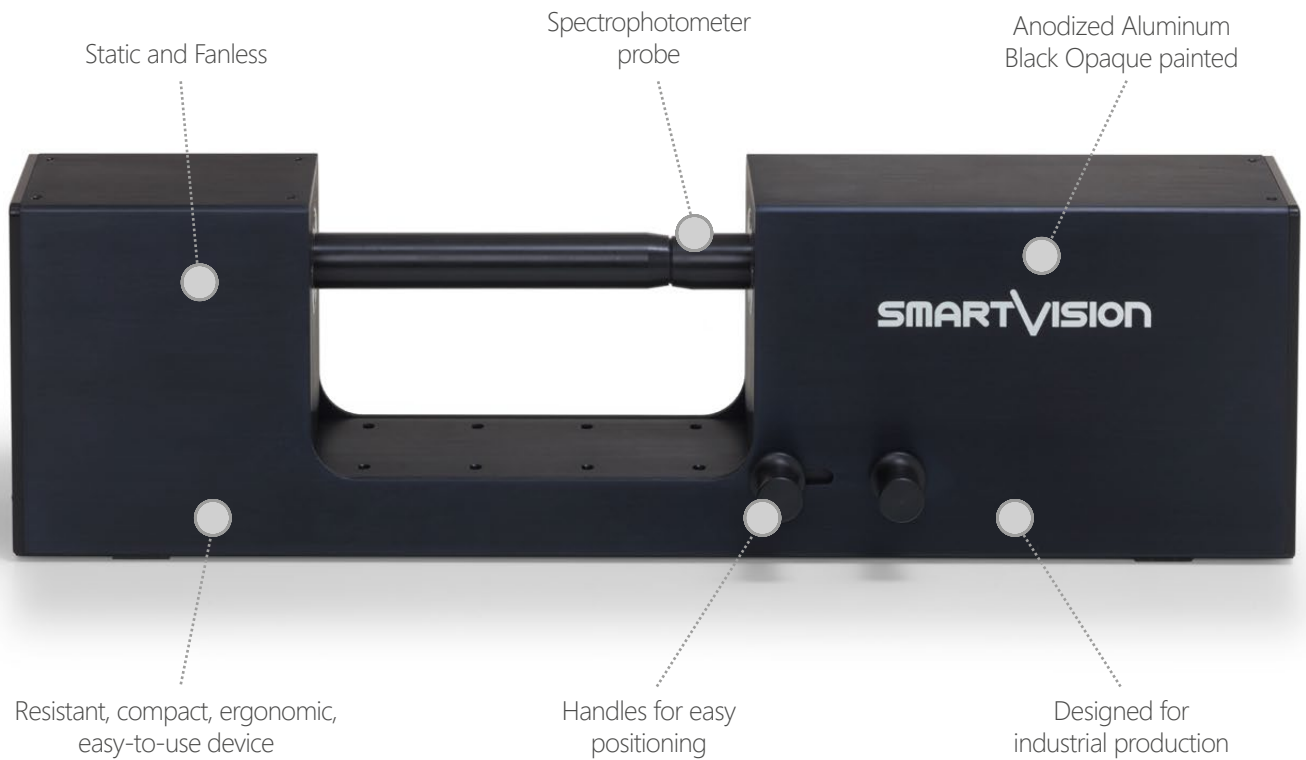
## *New Software features:*

- 3D color space visualization
- Extended User Management Feature
- Lamps Warm-up Dynamic Control
- Continuous auto-calibration
- Spectrum Stability Continuos Control
- Full Excel and PDF data reports
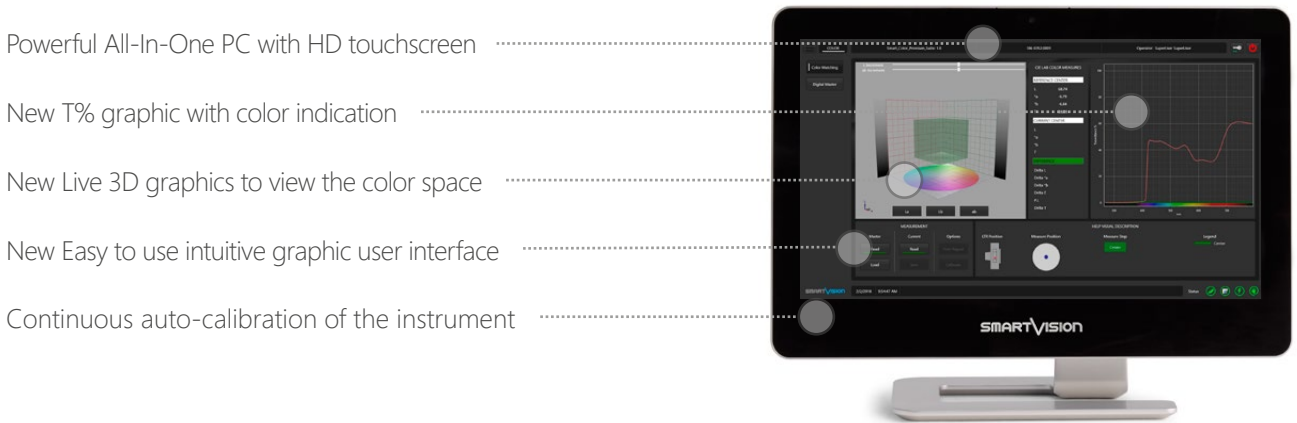
## *Application cases:*

# Smart Features

## State-of-the-art Spectrophotometer for Pharmaceutical Packaging

Static and Fanless

Spectrophotometer probe

Anodized Aluminum Black Opaque painted

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Resistant, compact, ergonomic, easy-to-use device

Handles for easy positioning

Designed for industrial production

## All-In-One Touchscreen PC

Powerful All-In-One PC with HD touchscreen

New T% graphic with color indication

New Live 3D graphics to view the color space

New Easy to use intuitive graphic user interface

Continuous auto-calibration of the instrument

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## Smart_Color_Premium Pharma Optional Accessories

Easy Vertical Alignment with the Y-Z Smart Tool positioning

Smart Docking Platform for a best Vertical use

# Specifications

## State-of-the-art Spectrophotometer for Pharmaceutical Packaging

| | |
|---|---|
| **Main Functions** | • Individual Pass-Fail lamp for every single international standard<br>• Customizable setting of accepted tolerance of color differences<br>• Digital Color-Master_Item Reference Management (Save & Name, Load Model)<br>• Points out the reason of a failure<br>• One shot color analysis<br>• Display 3D graphics to view the color space, parallelepiped of acceptability and measured points<br>• Spectrum Stability Continuous Control [SSCC Feature] - Allows more accurate measurement<br>• Lamps Warm-up Dynamic Control [LWDC Feature] -Warm up time will be minimum possible allowed by the hardware<br>• Auto-calibration of the instrument [CPCF Feature] - No visible calibration and no interruption of the measuring cycles<br>• Display of transmittance curve with color indication for each frequency of light, zoom, pan and display of transmittance values for single wavelength<br>• Full automatic Technical Data Sheet  reports on PDF or direct print<br>• Spectral transmittance values file output<br>• Full automatic Production Batch in Excel file<br>• Remote assistance function |
| **Technical Specification** | • Transmittance Curve<br>• UV Transmittance<br>• Check cycle and full report output in less than 1 second.<br>• Spectral Range 280 - 780 nm.<br>• Complete check of color differences $\Delta E$, $L^*$, $a^*$, $b^*$ and transmittance<br>• CIELAB 1976, CIELAB 1994, CIELAB 2000, CMC color spaces with the following settings:<br>  - Iluminant Type: A, C, D, F<br>  - Observer Degree : 2° and 10°<br>  - Color perception index developed specifically for solar filters (P.I.) |
| **SmartVision PC Device** | Powerful All-in-One PC with FULL HD touchscreen with Windows 10 PRO 64-bit, monitor resolution 1920x1080 |
| **PC Backup** | USB stick containing the backup system (bootable system startup) |
| **Dimensions (mm)** | 570 x 160 x 110 mm (lateral knobs included) |
| **Weight (kg)** | 6 kg (excluding PC) |
| **Power supply** | 110-240 Vac \| 50-60 Hz |
| **Power consumption** | 2 A (12 Vcc Included) |
| **Communication interface** | USB 2.0 |
| **Case** | Black Opaque painted Anodized Aluminum Case |
| **Interface Language** | Multi Language Dynamic Setup (English, Italian, French, Simplified Chinese already installed) |
| **Data Report** | xls, pdf |
| **Print Report** | Windows installed Printer xps |

FAST    EASY    ACCURATE    INDUSTRIAL    COMPACT    PRODUCTIVE    MADE IN ITALY

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