

smart-lab

New!

Online Color and Effect Control in the laboratory with BYK-mac i

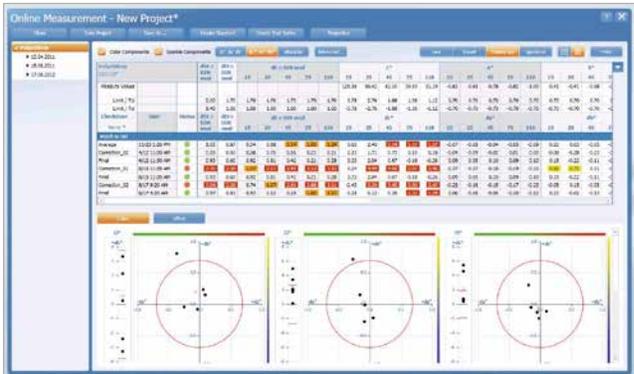
Color and effect control in the laboratory require on one hand open and flexible data analysis and on the other hand efficient data handling of large data sets.



Online Measurement – and instant data analysis

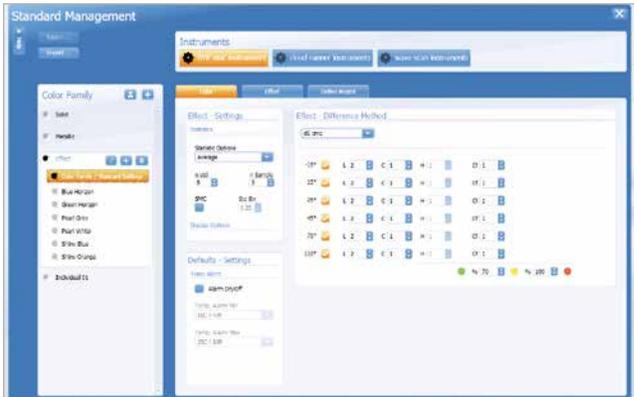
Just connect the BYK-mac i with the PC, measure the master panel, apply the respective tolerances and compare the actual samples against the standard. The data are displayed in a data table with Pass/Fail information and shown in various color graphs. Or recall standard and samples from the database and quickly add new readings.

Popular functions such as saving, deleting or copying can be executed with a right click of the mouse.



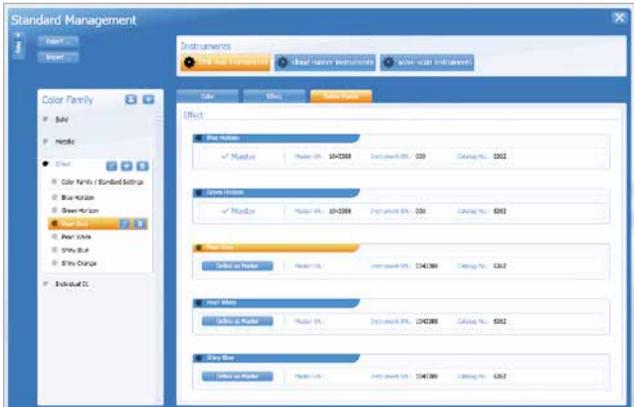
Standard Management – extensive flexibility of tolerance methods

smart-lab includes powerful standard management which allows defining Pass / Fail tolerances based on any color control parameter. Besides the commonly available color equations (e.g. CIELAB and CMC), customer specific color scales for all major automotive makers are already predefined and ensure color control according to their internal specifications.



Digital Standard – guarantees a seamless workflow

Thanks to the outstanding inter-instrument agreement of BYK-mac i – proven by all automotive makers and unsurpassed in the industry – smart-lab enables you to use "digital standards" on a global basis with your entire supply chain. Export and import your color standards in xml file format and send them by email to your supply chain. Thus, color control data are reliable and communication among all parties is seamless and efficient.



Data analysis – variety of measurement reports

Data analysis was never easier. Results are simultaneously displayed in a data table and a graph highlighting the samples being out of specification.

Easily toggle between measurement conditions like different illuminants and color equations. Multiple settings can even be combined in one project allowing the user to have multiple pass/fail criteria at one glance.

Graphically display color & effect results in the way that works best for your application: scatter plot, line/travel graph and spectral curves can be selected by just a mouse click.



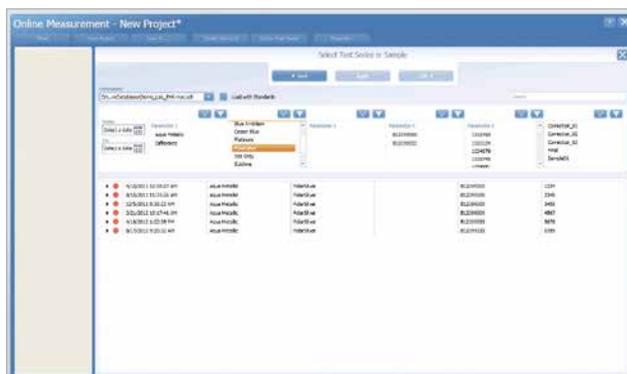
Swap Standard with Sample and vice versa – ultimate flexibility

Interested in how the previous batch compares to the current batch? Just drag & drop the data or even select a sample as the standard. Additionally, it is also possible to calculate the mean value based on a population of samples and use it as a new standard. This is of high interest when selecting a master standard out of a population of standard panels.

Database management – easy and secure

The data are saved in a SQL database which allows handling of large data sets over a long time period. This reliable database type also ensures full network and server compatibility. Retrieve data for further analysis based on your specific filter criteria, such as a specific color or a certain time range. Additionally, current standards and samples can be organized in projects. Projects are saved as xml-files and can be easily shared with other smart-lab users.

With smart-lab, you can start faster and finish sooner without getting lost in details.



Ordering Information

Cat. No.	Description
4862	BYKWARE smart-lab

Comes complete with:

Software on CD-ROM with license key

System Requirements:

Operating system: Windows® XP SP3, Vista SP2, Windows 7

Microsoft® .NET Framework 4

Excel® version 32 bit: 2003, 2007 or 2010 incl. VBA

Hardware: Core 2 Duo, 2.2 GHz, or equivalent

Memory: 2 GB RAM

Hard-disk space: min. 100 MB

Monitor resolution: 1280 x 1024 Pixel or higher

Disk drive: CD-ROM or DVD drive

Interface: free USB port.

Technical Specifications

Lab QC software for online color and effect control with BYK-mac i

Instruments	BYK-mac i, BYK-mac i COLOR
Color Differences	ΔE^* , ΔE_{CMC} , ΔE_{94} , ΔE_{2000} , $\Delta E_{DIN6175-2}$, custom specific scales
Illuminants	A, C, D50, D65, F2, F7, F11, F12
Observer	2°, 10°
Indices	Metamerism, Color Strength, Flop, Int-Em
Graphs	Scatter plot, line / travel graph, spectral curve
Database format	SQL Server Compact
Export	Project files (.xml format)
Languages	Chinese, English, French, German, Italian, Japanese, Spanish

Note: smart-process licence fee for more than two installations is quantity dependent.

Please contact your local BYK-Gardner representative.