O BYK

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smart-chart 7.3.1

smart-chart 7.3.1 is now using full functionality of a 64-bit software. Meaning when you are using a 64-bit operating system your computer allows smart-chart to access more RAM and thus to run more efficiently with higher performance. This improves speed when a large number of data is stored (standard database and measurement database) as well as for large project files in smartlab. As a lot of software tools are no longer running under Windows 7 and Microsoft terminated their support for Windows 7, we cannot guarantee a flawless performance of smart-chart anymore. Thus, the minimum requirement as an operating system is Windows 10.

New Features for spectro2guide Family

- Support of spectro2guide Pro including Jetness and Greyness indices
- smart-lab
 When project files saved on a shared drive are accessed by a second user they can be opened in read-only mode
- smart-process
 Panel match added to Organizer
- Standard Management
 - New color equation: dEDIN6175-2019
 - Weighted color equations based on L*C*H* (e.g. dECMC, dE94): Scaling factors can be manually switched to L*a*b* and edited
 - Gloss tolerances: Relative input of tolerances and input of target value (e.g. ± 10% of target value 92)
- Data Analysis

Display of scaling factors in data table equal to BYK-maci

Standard Green					D65/10 d:8° spin					Gloss 60	
					dE00	L*	С*	H*	dE00 Fl	GIOSS 60	
				Absolute Values			56.68	20.46	132.90	0.00	1.4
				Fail High		1.00	0.77	1.46	1.06	0.33	
				Warning High		0.70	0.54	1.02	0.74	0.23	
				Warning Low			-0.54	-1.02	-0.74		
				Fail Low			-0.77	-1.46	-1.06		
Scaling factor					ng factor		1.08	2.05	1.48		
Checkzone *	Param1	Param5		Date Status		D65/10 d:8° spin					AGloss 60
				Jate	Status	dE00	dL*	dC*	dH*	dE00 Fl	AGIOSS 60
Match to Star	ndard										
SAMPLE 001			20/05 18:22:03		•	0.99	1.03	-0.13	0.28	0.00	0.2
SAMPLE 002			20/05	18:22:12	•	1.03	0.49	0.62	1.04	0.00	-0.4





New Features for **BYK-mac** i Family

- Support of BYK-mac i Pro for color measurement. Sparkle ANO evaluation still has to be done with Flake Analyzer software
- smart-lab

When project files saved on a shared drive are accessed by a second user they can be opened in read-only mode

- Standard Management
 - New color equation for Chinese customer: D Nio based on dEAudi2000
 - Weighted color equations based on L*C*H* (e.g. DIN6175-2019): Scaling factors can be manually switched to L*a*b* and edited
 - When measuring standards in SMC mode, the standard error is displayed in the result table

Bug fix smart-lab

When displaying absolute values, the defined angle selection of the standard remains valid (before always all 6 angles were displayed)





New Features for spectro2profiler

smart-lab

When project files saved on a shared drive are accessed by a second user they can be opened in read-only mode

- smart-process
 - Panel match added to Organizer
 - **Standard Management**
 - New color equation: dEDIN6175-2019 -
 - Weighted color equations based on L*C*H* (e.g. dECMC, dE94): _ Scaling factors can be manually switched to L*a*b* and edited Gloss and 2D/3D scales tolerances: _
 - Relative input of tolerances and input of target value (e.g. ± 10% of cell size target value 2.4)
- Data Analysis
 - _ Wrap function to automatically align images of one sample in one row



Compare function for 3D Visualization with same zooming being applied to height map of standard and sample



New Features for wave-scan Family

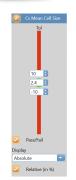
smart-process

- Panel match added to Organizer
- Improved history function including tolerance limit

Checkzone *	Date	Status	DOI	R	В	Wd
Match to Standard						
door left	17/02 14:03:06	•	82.0	6.8	-2.6	23.2
door right	17/02 14:04:23	٠	79.4	6.1	0.4	29.0
fender left	17/02 14:02:52	•	80.9		-0.6	21.6
fender right	17/02 14:04:39	•	81.9	7.7	-0.8	18.0
hood left front	17/02 14:02:26	٠	82.7	9.6	-0.1	9.9
hood left top	17/02 14:02:40	•	82.9	9.6	0.6	9.1
hood right front	17/02 14:02:12	٠	73.7	6.2	4.3	25.4
hood right top	17/02 14:01:58	٠	80.2	7.0	1.2	22.7
quarter left	17/02 14:03:21	•	82.5		-2.8	18.3
quarter right	17/02 14:04:08	•	82.3		0.6	17.0
trunk	17/02 14:03:41	•	80.7	7.2	3.0	16.3
Groups						
horizontal	17/02 14:09:24		80.0	7.9	1.8	16.7
vertical left	17/02 14:09:24		81.8		-2.0	21.0
vertical right	17/02 14:09:24	=	81.2		0.1	21.3
Panel Match - all scales ∆						
door left - door right	17/02 14:09:24	-	2.6	0.7	-3.0	-5.8
fender left - fender right	17/02 14:09:24	-	-1.0	-0.3	0.2	3.6
hood left front - hood right front	17/02 14:09:24	-	9.0	3.4	-4.4	-15.5
hood left top - hood right top	17/02 14:09:24	-	2.6	2.6	-0.6	-13.6
guarter left - guarter right	17/02 14:09:24	-	0.2	-0.3	-3.4	1.3









New Firmware included with smart-chart 7.3.1

spectro2guide: Version 2.2.0.28864

- Support of spectro2guide Pro including Jetness and Greyness indices
- New color equation: dEDIN6175-2019
- Weighted color equations based on L*C*H* (e.g. dECMC, dE94): Scaling factors can be manually switched to L*a*b* and edited
- Gloss tolerances: Relative input of tolerances and input of target value
- <u>Metamerism Index:</u> A status dot is added when the metamerism index limit is exceeded.
 - The limit can be set in smart-chart standard management
 For standards measured directly on the instrument the default limit is 0.7
 - Prerequisite: MI index must be selected as an index and at least two illuminants have be activated
- Bug fix: When selecting dE990 the respective color components L990, a990, b990 are displayed

BYK-mac i: Version 9.65

- New color equation for Chinese customer: D Nio based on dEAudi2000
- Weighted color equations based on L*C*H* (e.g. DIN6175-2019): Scaling factors can be manually switched to L*a*b* and edited
- Optimized firmware update program to avoid false selection of display type causing a freeze of the display

spectro2profiler: Version 1.3.1.28735

- All solid color related new features (same as spectro2guide)
 - New color equation dEDIN6175-2019
 - Metamerism index status dot
 - Relative input of gloss tolerances
 - Relative input of 2D/3D scales tolerances
- Bug fix: When selecting dE99o the respective color components L99o, a99o, b99o are displayed

New wave-scan 3: Version 1.2.0

- Updated translations
- Optimization of internal production processes

wave-scan dual/II: Version 5.78

• Reactivation of "Hada Scale" for Suzuki

