TECHKON SpectroDens
With the new SpectroDens generation TECHKON continues the success story of the SpectroDens hand-held devices in the long term. The dictum during product development was: Pursue proven concepts and integrate new meaningful technologies. The result sets a new standard.

A measurement device for all applications

SpectroDens is an all-purpose measurement device, that is universally used for quality control in the printing industry as well as for other tasks, where colors have to be judged critically. SpectroDens is exceptionally suitable, no matter which application. Thanks to the individually adjustable display functions, you can quickly set up the device for your particular job. The solid aluminum unibody case makes the device a reliable tool even in a harsh industrial environment. Direct positioning of the measurement head on the measurement field ensures a secure and quick measurement. In addition to single measurements you can easily carry out scan measurements. Tracking wheels on the bottom of the device make it possible to scan very fast up to 200 color patches at once on a print control strip or test chart.

Two devices in one

As a spectro-densitometer, SpectroDens combines the qualities of a highly accurate spectro-photometer and an easy-to-use densitometer. Measurement is spectral, i.e. the entire color information – the spectral fingerprint of the color – is precisely registered. The data is converted into measurement data for descriptive analysis and display:

- Densitometric data is widely used in quality control during the printing process.
- Colorimetric data is used in the evaluation of print proofs, the creation of color profiles in color management as well as the color matching and formulation of inks.

Densitometry / Density measurement

A push of a button provides you with solid density as well as all useful additional information such as dot gain, dot area, gray balance and print contrast. In the automatic measurement mode the device always displays the relevant information instantly. You can even quickly and easily produce complete printing curves. The spectral measurement technology calculates not only density values for CMYK, but also exact data for the density of spot colors.

Colorimetry

All standard colorimetric functions are displayed clearly. Even the entire CIE L*a*b* color circle appears in the high resolution color display. As a result understanding CIE L*a*b* values be-
Standardized measurement

Thanks to its ISO-compliant measuring head SpectroDens works strictly according to the standards valid for the graphic industry. Select different status filters for density measurement in the device settings. A special technical feature is the polarization filter which can be switched on and off by a push of a button and makes SpectroDens particularly good at evaluating the Ugra/Fogra media wedge.

Using the latest LED technology SpectroDens provides D50 illumination and therefore fulfills the M0, M1, M2, M3 measuring conditions in accordance to ISO 13655. The lifetime of the LED illumination is nearly unlimited. Moreover the new design of the direction-independent measuring head provides reliable measurements of a wide range of print media.

Software SpectroConnect

The supplied Windows-software TECHKON SpectroConnect provides the connection between SpectroDens and the PC via the micro-USB connector or via the optionally available WLAN-module. Measurement data can thus be comfortably processed on the PC and transferred, for example, to Microsoft Excel™.

Use the color library to load complete digital color books quickly and easily into the device. An import of color values in DXF® format is possible as well. SpectroConnect is also the connecting module for other applications, e. g. programs for the production of printing curves, for colorimetric quality control or for checking the compliance of printing products to ISO standards.