



## TECHKON Spectro-Densitometer

### The new era in color measurement

**SPECTRO**  
**DENS**  
**NEW**  
**GENERATION**

With the **New Generation**-Series we continue the success story of the SpectroDens handheld 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 which we are proud of.

### The highlights at a glance

- High-resolution spectral engine
- Direction-independent, ISO-compliant measuring head
- Precisely CNC machined, solid aluminium unibody case
- Fast single measurements and encoder precision scan lengths up to 110 cm
- Wireless, inductive battery charging
- Long-lasting battery for approx. 10000 measurements per charge
- Intuitive operation and convenient handling
- Micro-USB connector; WLAN optionally
- Memory for 20000 reference values

### Specifications

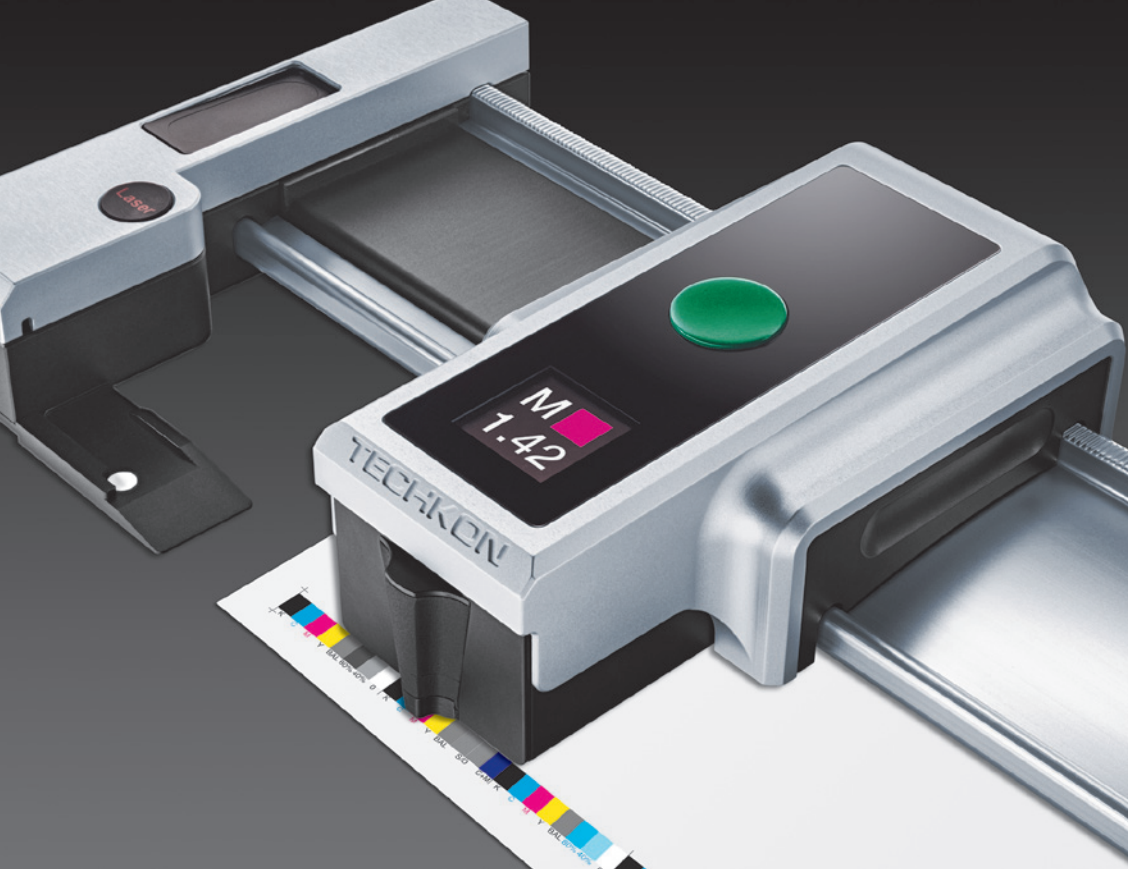
Measurement geometry	0°:45° optics
Spectral range	400 to 700 nm in 10 nm steps, sensor resolution 10 nm, pixel resolution < 3 nm
Measurement aperture	3 mm round standard; 1.5 mm round optional
Light source	LED, provides measurement conditions M0, M1, M2, M3 according to ISO 13655
Polarization filter	Twice linear crossed, switched on and off per button release
Measurement time	Approx. 1 sec. per measurement; max. 12 seconds in scan mode
White reference	Absolute and relative; absolute white standard integrated and protected in charging console
Illumination types	A, C, D50, D65, F 2/7/11
Standard observer	2°, 10°
Density filter	DIN 16536, DIN 16536 NB, ISO/ANSI T, ISO/ANSI I, ISO E; spectral density Dmax
Density measurement range	0.00 – 2.50 D
Repeatability	0.01 D; 0.03 CIE $\Delta E^*a^*b^*$
Inter-instrument agreement	0.01 D; 0.3 CIE $\Delta E^*a^*b^*$
Display	Color LC backlight display, anti-reflective, 320 x 240 pixels
Power supply	Rechargeable LiFePo4 battery, regulated recharge via charging console with AC adapter, 100 – 240 V, 47 – 63 Hz, approx. 10000 measurements per battery charge, battery level control
Communication port	USB; WLAN module optional
Weight	495 grams
Dimensions	62 x 50 x 185 mm (approx. 2.4 x 2.0 x 7.3 inches)
System requirements for TECHKON software:	
Windows	7, 8 or 10; 32- and 64-bit, minimum: IBM-compatible PC with Intel Core Duo processor or comp. processor, 4 GB RAM, 2 USB ports

Preliminary technical data. May be subject to change.  
© TECHKON GmbH 2016. 05/2016. All rights reserved.

**TECHKON**  
Erfolg ist messbar

TECHKON GmbH  
Wiesbadener Straße 27  
D-61462 Königstein

T +49 (0) 6174 92 44 50  
info@techkon.com  
www.techkon.com



## TECHKON Scan-Measurement System Highest print quality on the fast track

**SPECTRO  
DRIVE**  
NEW  
GENERATION

The **New Generation** of the scan-spectrometer SpectroDrive has it all: high measurement precision combined with reliability at highest scanning speeds. German engineering at its highest level. It is designed to integrate seamlessly into your printing process. The result: An ultimate driving machine giving you best efficiency and cutting-edge quality for your print jobs.

### The highlights at a glance

- Precisely CNC machined, solid aluminium unibody case
- ISO-compliant measuring head
- Variable scan lengths; fits to any printing press
- Wireless, inductive battery charging
- New, durable battery generation
- Intuitive operation and convenient handling
- Integrated display shows the measurement values of spot measurements directly at the device
- Wireless data transfer
- Laser-positioning of color control bar
- New ExPresso software for print process control

### Specifications

Measurement geometry	0°:45° optics
Spectral range	400 to 700 nm in 10 nm steps
Measurement aperture	1.5 mm, appr. for measuring patches with at least 3 x 3 mm (h x w)
Light source	LED, provides measurement conditions M0, M1, M2, M3 according to ISO 13655
Polarization filter	Twice linear crossed, switched on and off per software command
Measurement time	Approx. 160 mm/s for 4 mm patches (equals approx. 3 seconds for 520 mm sheet length), single measurement approx. 1 second (if SpectroDrive is used as hand-held device)
White reference	Absolute and relative; absolute white standard integrated in charging console
Illumination types	A, C, D50, D65, F 2/7/11
Standard observer	2°, 10°
Density filter	DIN 16536, DIN 16536 NB, ISO/ANSI T, ISO/ANSI I, ISO E; spectral density Dmax
Density measurement range	0.00 – 2.50 D
Formats	52 (20") for sheet format 00 (B3+, 370 x 520 mm); 74 (28") for sheet format 0B (B2+, 520 x 740 mm); 102 (40") for sheet format 3B (B1+, 720 x 1020 mm); 105 (42") for sheet format 3B+ (B1+, 780 x 1050 mm); special formats (up to 2060 mm) on request
Repeatability	0.01 D; 0.03 CIE ΔE*a*b*
Inter-instrument agreement	0.01 D; 0.03 CIE ΔE*a*b*
Display single measurement	Color-OLE display, 128 x 128 pixel
Data transmission	WLAN-module for wireless data transmission with PC-sided USB connection
Power supply	LiFePo4 battery, regulated recharge via charging console with AC adapter, 100 – 240 V, 47 – 63 Hz
Weight	Measurement device: 925 grams
Dimensions	59 x 96 x 170 mm (approx. 2.3 x 3.8 x 6.7 inches)
System requirements for TECHKON software:	Windows 7, 8 or 10; 32- and 64-bit, minimum: IBM-compatible PC with Intel Core Duo processor or comparable processor, 4 GB RAM, 2 USB ports; Screen resolution for TECHKON ExPresso: minimum 1280 x 1024 pixel
Preliminary technical data. May be subject to change.	
© TECHKON GmbH 2016. 05/2016. All rights reserved.	

**TECHKON**  
Erfolg ist messbar

TECHKON GmbH  
Wiesbadener Straße 27  
D-61462 Königstein

T +49 (0) 6174 92 44 50  
info@techkon.com  
www.techkon.com