

# SpectroDens Basic



## **SpectroDens Basic**

Article Status : **Not-New - New Certificated by the manufacturer in 12-2011. The battery was replaced too.**

Techkon SpectroDens

Fundamental Advantages:

- + Patented measurement head for exact and direct positioning
- + Attractive, ergonomic design
- + handy and compact
- + Self-explanatory operation
- + Large, high-resolution display screen
- + Automatic measurement function displays always the relevant values
- + Polarization filter insertable by push of a button
- + Precise, quick measurement (approx. 1 sec.)
- + Approx. 10,000 measurements per battery charge
- + Quick recharge on practical charging console

Functions:

### **SpectroDens Basic**

- Automatic density
- Density CMYK (with reference measurements)
- Dot area, dot gain, print contrast
- Gray and color balance
- Ink trapping to Preucil

### **SpectroDens Advanced**

Same functions as SpectroDens Basic additionally

- Characteristic printing curve
- Spectral density for spot colors
- Trend function ExPresso mini
- Slur/ doubling value
- Dot area to Yule - Nielsen
- Ink trapping to Brunner and Ritz
- Density spectrum
- CIE Lab , ?Eab, CIE XYZ, CIE color circle
- Remission spectrum
- Color Library
- GrayGuide according to Gracol G7™

### **SpectroDens Premium**

Same functions as SpectroDens Advanced and additionally

- CIE LCh ab, CIE Luv, CIE LCh uv, CIE xyY, DIN Lab 99
- ?E cmc, ?E CIE94, ?E CIE 2000
- ISO - Check: Color control acc. to Iso 12647
- InkCheck: Evaluation of spot colors
- Metamery index
- Whiteness, yellowness
- Pass-/ fail tolerance, average
- Ugra/ fogra media wedge evaluation

## Specifications

**Measurement technology:**

Spectral remission measurement and color density determination to ISO 5-3/4

**Measurement geometry:**

0/45° optics to DIN 5033

**Spectral range**

400 to 700 nm in 10 nm steps

**Measurement aperture**

3 mm round standard; Optional: 1.5 mm round, 3 mm round with UV-Cut filter

**Light source**

Gas-filled lamp, type A illumination

**Polarization filter**

Twice linear crossed, switched on and off per button release

**Measurement time**

Approx. 1 second per measurement

**White reference**

Absolute and relative; absolute white standard integrated and protected in charging console

Illumination types / Standard observer A, C, D50, D65, F 2/7/11 / 2°, 10°

**Density filter**

DIN 16536, DIN 16536 NB, ISO/ANSI T, ISO/ANSI I, ISO E, Dmax (only Advanced, Premium)

**Density measurement range**

0.00 D – 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**

High-contrast, LCD-graphic backlight display, 240 x 160 pixels, 16 gray levels

**Power supply**

Rechargeable NiMH battery, regulated recharge via charging console with AC adapter,

100 – 240 V, 47 – 63 Hz, up to 10.000 measurements per battery charge, battery level control

**Communication-Port**

USB

**Weight**

520 grams

**Dimensions**

65 x 65 x 190 mm (approx. 2.6 x 2.6 x 7.5 inch)

**System requirements**

for software SpectroConnect: Windows XP, Vista or 7



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