



**Scan-Measurement Device  
TECHKON SpectroJet**

**SPECTRO  
JET**

# Color Control – fast and easy to use!



Complete information at a glance!

- for automatic measurements of colorimetric values, densities, dot gain, printing contrast and gray balance
- highly accurate spectrophotometer for colorimetry (e.g. CIE L\*a\*b\*- and  $\Delta E$ ) and density
- very high measurement speed
- can be used as a regular hand-held measuring device
- switchable polarizing filter for ISO-compliant measurements
- for ink-zone specific color control
- ideal for reading Fogra media wedge and similar color control targets
- universally designed for ISO, PSO, Gracol G7™ or any other quality standard



Works with any color bar!

**TECHKON®**

## Accurate, fast and easy to use

SpectroJet revolutionizes automatic measurements of print quality on print control bars, color wedges and test charts.

Color measurement made easy: The compact measurement device is quickly guided by hand along the color bar. Tracking wheels on the bottom of the device ensure a secure and straight run. At longer distances the device can be slid along a guiding track. The measurement data is transferred simultaneously to a PC in order to control the color quality of the printing press.

## All-purpose device

Thanks to the modular concept of SpectroJet it can be used for any printing process and quality standard. ISO 12647, PSO, Fogra media wedge, Gracol G7™ or any other standardization method can be applied: SpectroJet will always deliver all relevant measurement data necessary for evaluating high quality prints.

The supplied software TECHKON SpectroConnect displays clearly all measurement values on the computer screen, which are transferred by SpectroJet via an USB connection. All measurement values can be exported as well into other applications, such as Microsoft Excel for example. The additionally available software TECHKON ExPresso is especially suited for the evaluation and documentation of the print quality according to various quality control methods, e.g. ISO 12647 or Gracol G7™.

## ISO compliant measurements

By software command a physical polarizing filter can be inserted which is the precondition for conforming to the print standards. Multiple functions – color densities, colorimetry, printing contrast, gray balance, dot gain or ink setting recommendations – SpectroJet is a versatile and valuable tool for achieving highest print quality and boosting the productivity of a printing press.

## Contents

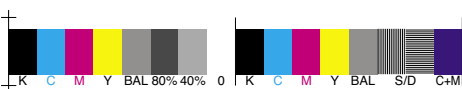
Measurement device SpectroJet, white standard, universal AC adapter, USB cable, carrying case, CD with software TECHKON SpectroConnect, color bar TECHKON TCS Digital, manual with ISO 9000 certificate

System requirement for TECHKON software:  
Microsoft Windows XP, Vista

## Accessories

Horizontal track with two vertical bars.  
Standard length: SpectroJet Track 52 (520 mm), 74 (740 mm) or 102 (1020 mm).  
Special lengths on request

Software TECHKON ExPresso,  
delivery on CD with program protection  
key (USB dongle)



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## 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

1,5 mm, appropriate for measuring patches with at least 3 mm height and 3 mm width.  
UV cut filter optional

### Light source

Gas-filled lamp, type A illumination

### Polarization filter

Twice linear crossed,  
switched on and off per software command

### Measurement time

Approximately 160 mm/s for 4 mm patches (equals approximately 3 seconds for 520 mm sheet length),  
approximately 400 mm/s for 8 mm patches;  
single measurement approx. 1 second

### Scanlength

unlimited

### White reference

Absolute and relative

### 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, spectral density Dmax

### Density measurement range

0,00 D – 2,50 D

### Repeatability

0,01 D  
0,03 CIE  $\Delta E^*_{a^*b^*}$

### Production spread

0,01 D  
0,3 CIE  $\Delta E^*_{a^*b^*}$

### Data transmission

USB-connection

### Power supply

AC adapter, 100 – 240 V, 47 – 63 Hz

### Weight

Measurement device: 360 grams