



Reflection Densitometer R 410 / R 410e

- for prints and proofs
- for Computer-to-Plate
- for calibration of color copiers
- high measurement speed
- handy and compact size
- no moving parts
- patented measuring head for pinpointed positioning on test patch
- rechargeable NiMH batteries
- RS 232 interface for connecting to Quality Assurance Software

TECHKON Reflection Densitometers

The Color Reflection Densitometers R 410 and R 410e cover the full range of measurements used in densitometry. Both instruments offer the functions:

- density and density difference
- gray and color balance
- dot spread and dot gain
- printing contrast
- measurement of printing plates with Yule-Nielsen formula and exact determination of factor n

The Reflection Densitometer R 410e has the additional functions:

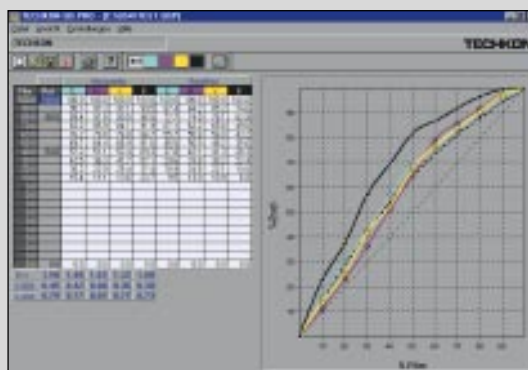
- trapping
- grayness
- hue

A single measurement is sufficient for evaluating the gray and color balance. The four measured component densities CMYK are displayed simultaneously. The alphanumeric display can be called up in different languages.

TECHKON Software

For the Densitometers R 410 and R 410e Quality Assurance programs are available. The software

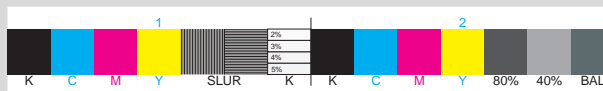
TECHKON EXChange allows to transfer the measured values into Microsoft EXCEL.



Characteristic printing curve with TECHKON QS PRO

TECHKON TCS print control strips

The TECHKON TCS print control strips are important utilities for the quality assurance in pre-press and print. The arrangement of the individual test patches on the control strips is ink-zone specific. The TCS is offered in three different formats: TCS 300, TCS 325 and TCS 400 for 30 mm, 32.5 mm and 40 mm respectively.



The TCS print control strips are available on film as well as digital files. TCS Film can be ordered in the lengths 1020 mm or 1040 mm.

Technical Data	Reflection Densitometers R 410 / R410e
Measuring method	color density measurements accord. to DIN 16536/ISO 5-3
Filter selection	automatic color recognition accord. to DIN 16536E
Measuring filters	(other filters as option)
Polarization filters	in series, 2x linear
Measuring range D	0.00 - 2.50 D
Measuring range %	0 - 100 %
Measuring aperture	ø 3.2 mm
Measuring light	2856 ± 100 K
Measuring geometry	0°/45°
Photodiodes	4 GaAsP diodes with approximately V(λ)-sensitivity
IR-sensitivity	none
Linearity	± 0.01 D
Repeatability	± 0.01 D
Interinstr. agreement	± 0.02 D
Calibration	automatic in all colors
Display	2 lines, 16 characters per line
Interface	serial RS 232
Power supply	rechargeable NiMH batteries 8,4 V, 1200 mAh
Charger	charging station with AC adapter, 100-240 V, 47-63 Hz, controlled charging with overcharge protection
Dimensions/Weight	HWL 56 x 64 x 186 mm, 480 g

Specifications are subject to change without notice. © TECHKON 1999

Technical Data TCS print control strips Digital and Film

Format		
TCS 300:	240 mm	length of one sequence,
	1020 mm	total length of TCS Film
TCS 325:	260 mm	length of one sequence,
	1040 mm	total length of TCS Film
TCS 400:	320 mm	length of one sequence,
	1040 mm	total length of TCS Film

Format of TCS Digital

Three files Encapsulated Postscript Level 2 (EPS), Adobe Illustrator Format on CD for Macintosh and Windows system

Testpatches

Density	CMYK
Dot area	CMYK 40% and 80% round dot, 45°, 60 L/cm
Trapping	C+M, M+Y, C+Y
Color balance	C 74%, M 60%, Y 58%, each 60 L/cm
Highlight patches	dot area 2, 3, 4, 5%
Slur and doubling	line at 0° and 90° with 60% dot area, 48 L/cm

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