

# DTP41 Spektralfotometer



## **DTP41 Spectral photometer**

- USB and serial interface offers connection possibility for colour management software
- Compatibly to almost all big colour management programmes
- Optionally available UV filter and Durchlichteinheit

### Unmatched exactness

Colour calibration, process control or colour management – no matter in which of these areas you work, the automatically scanning spectral photo metre of series DTP41 II allows the exact inquiry of colour data to you. With the help of the spectral technology the series DTP41 can measure all colours with an unmatched exactness, and determines exact and detailed colour values.

### Density and colour metrics

The DTP41 offers thanks to the spectral technology a big variety of functions, among the rest, density measurements and colour measurements. By his versatility the DTP41 has become the favorite of the leading manufacturers of Proofing to systems, programmes to the colour management and digital pressure.

### Automatically and with excellent compatibility

The series DTP41 II is convincing by his flexibility and universal compatibility. It can automatically measure a whole stripe of your Farbtargets and pass on the measuring data in the connection automatically to your colour software. Such a Scan lasts only few seconds by which an average colour profile ICC can be completely read in at less than 10 minutes.

### UV, Durchlicht and extra-wide measuring surface

The series DTP41 II offers you with the DTP41UV a measuring instrument which makes easier to you the work with optical fill-in lamps which are often to be found in Proofing paper. The DTP41UV reduces the influence of the fluorescent effect and allows thus an accurate measurement also on media with optical fill-in lamps. The application possibilities of the DTP41 / T are very comprehensive thanks to binary On and Durchlichtmessung, colour management can be used now also for clear and half-clear materials like film and foil. Or use the DTP41W9 with extra-wide measuring surface. With it you can measure easily broader stripes, than with customary devices.

### Quick and exact measurements with the DTP41

With the stripe reader DTP41 you receive high-class versatility and exactness without having to accept speed losses. On the contrary, the DTP41 is one of the quickest colour measuring instruments at the market. It misses up to 10 times quicker than customary hand devices or luxurious and expensive automated measuring instruments. The DTP41 misses a complete stripe of test charts in approx. 20 seconds. Already a single Scan determines the quality of her digital or customary Proofing of system. Two or three Scans are sufficient for a typical colour calibration. And mostly already reach five or six Scans to provide an entire colour management profile.

### Long useful life, user-friendly and reliably

The DTP41 disposes of a huge number of functions, still it is very user-friendly. The measuring instrument can be put into operation immediately, and must not be installed only protracted and be furnished. The handy, but still very robust design allows a universal use in Prepress and directly at the desk and it also takes the often inevitable pushes in the everyday life easily.

The DTP41 disposes of an exact stripe move which can draw a variety in media, from the copying paper with low paper strength up to polyester pressure plates. With the DTP41 we offer you a measuring instrument which will do easily long time good services to you thanks to the easy use and servicing.

### The DTP41 works as a part of your workflow

The DTP41 integrates itself seamlessly into most current colour management systems. Connect it simply with your colour management system to carry out with it colour potash Brie posts, to provide profiles and to check colours. The DTP41 is full-compatible with all big operating systems, like Macintosh®, Windows®, Sun® and SGI®, and allows the connection above serial interface and USB to you. The Kompati-bilität is continuously developed, so that you can integrate the DTP41 into colour management systems more and more. Extend your system by the

combination of DTP41 and X-Rite monitor Optimizer to integrate also your monitor into the colour management. The X-Rite monitor Optimizer is natural also to almost all colour management systems kompatibel and offers you the necessary exactness to round the colour functionality of the DTP41.

#### Specifications

##### Measuring geometry

Auflicht: 45 °/0 ° according to German Institute for Standardization and ISO norms

Durchlicht: 180 °/0 ° (DTP41 / T) according to GERMAN INSTITUTE FOR STANDARDIZATION and ISO norms

##### Measuring surface

1.8 mm in scan direction; 2.5-mm width

##### Source of light

Gas-filled electric light bulb with approx. 2850 K colour temperature

##### Spectral measuring head

DRS technology, measurement with 24 wavelengths, issue in to 10-nm intervals

##### Spectral range

400 to 700 nm

##### Light kinds

A, C, D50, D55, D65, D75, F2, F7, F11, F12

##### Normal observer

2 ° and 10 °

##### densitometric system delicacy

DINAR / ISO of status t, E, I, A (together status m for DTP41 / T)

##### Measuring speed

approx. 0.25 Sek./fields (7-mm field)

##### incident light measuring (DTP41, DTP41 / T)

##### Device correspondence

0.3 DECMC

(Average on 12 BCRA tiles)

##### Measuring area

0.00 D to 2.50 D; from 0 to 160% of reflexion

##### Repeatability

max.  $\pm 0,01$  D on white; max. 0.2 DE on white

##### Linearity

$\pm 0,01$  D or 1%

##### Durchlicht measurement (DTP41 / T)

##### Device correspondence

$\pm 0,02$  D or 2% (typically); from 0 to 3.0 D

**Measuring area**

0.00 D to 5.00 D; from 0 to 110% Durchlicht

**Repeatability**

±0,01 D or 1%; from 0 to 3.5 D (visually)

**Paper strength**

0,08 - 0.6 mm

**Maximum arc length**

1400 mm (in scan direction)

**Measuring place**

Rows with measuring fields have to go within 100 mm (DTP41, DTP41 / T, DTP41 / UV) or within 225 mm (DTP41 / W) from the curve edge lie additional guidance for 35-mm film.

**Least size for measuring fields**

7.0 mm in scan direction

12.0-mm width (recommended)

**Number of measuring fields**

1 at least, max. 100 per row

**Preliminary heat paper**

38 mm (recommended)

**Caster paper**

30 mm or 2 measuring fields + 2 space  
(bigger value)

**Data interface**

Serial RS-232 interface,

Data transfer rates 1200 Baud to 57.6 kBaud

USB

**Electricity supply**

12 V DC about net part 100-240 V AC

50-60 hertz; 30 W max.

**Calibration**

With calibrating stripe, when required

**Surroundings values**

Operating temperature +10 ° - 40 ° C

30 - 85% rel. Air humidity (not condensing)

**Warm-up phase**

None

**Dimensions**

Height: 88 mm

Width: 184 mm

Length: 114 mm

Weight

890 g, DTP41 / T 1090 g

Accessories

Calibrate standard

Interface cable RS-232 DB9 and/or USB

Net part



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