

# DTP32TR AutoScan Farbdensitometer

**BRAKENSIEK®**  
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## DTP32TR AutoScan color densitometer

- Measure T status, visual density according to ISO and the tone of films, polyester plates and proofing materials.
- Compatible with many third-party calibration programs

## Automatic Strip Reading Densitometer for Calibration of Color Output Devices

The DTP32 provides calibration and quality control for PostScript® color copiers, color printers, color proofing and systems.

The calibration of any color output device will drift over time, causing color and fluctuations in screen values. Colors may vary due to changes in room temperature, humidity, or changes in paper, toner, or other automatic scanning densitometer materials. The DTP32 Ensures consistent, accurate color on every job.

## Calibration Software Interface

The DTP32 interfaces directly with most calibration software through a direct cable link to a computer.

## Simple, Step-By-Step Operation

- Output a calibration test print from a color printer or copier.
- Feed it through the car's DTP32 scanning mechanism.
- The DTP32 sends readings to the color density control software via serial interface.
- Within minutes, the printer is calibrated and ready to deliver accurate, consistent prints.

## Features

- Is supported by a Majority of 3rd party software, RIP and printer manufacturers. Visit X-Rite's web site "Color Enabled" for information: [www.x-rite.com/support/partners.asp](http://www.x-rite.com/support/partners.asp)
- Status T color response (the industry standard for wideband reflection densitometer).
- Interfaces with IBM-compatible Macintosh®, Sun, and SGI platforms.
- Fast, time-saving process - five calibration completes in under minutes.
- Optional DTP32TR offers transmission and reflection combination technology.
- Measures paper and film output.
- Small desktop footprint.
- Accessories included:
  - Calibration reference
  - Operation manual
  - PC / Mac interface cables
  - Power supply

## Benefits

- Color consistency throughout a job and over time.
- Sharp, accurate, color.
- Predictable, repeatable results.
- Quality control of on-demand, including color proofing, large format and color prints.
- Fast, easy-to-use system
- No trial and error.
- Fewer service calls, lower overall costs.

## Specification

### Measuring Geometry

Reflection: by ANSI PH2.17/ISO 5/4

multi-sensor array

Optional Transmission: 2 per ANSI PH  
19/ISO 5/2

**Light Source**

Gas pressure filament lamp with  
approx. 2850 ° K color temp  
Lamp life, approx. 1,000,000 scans @ 11 "

**Receiver**

Blue enhanced silicon photodiodes

**System Response**

ANSI / ISO Status T

**Measurement Range**

Reflection: 0.00d to 2.50D absolute  
Transmission: 0.00 to 4.00d absolute

**Repeatability**

± 0.01D, 0 to 3.0D  
± 1%, 3.0 to 4.0D

**Linearity**

± 0.01D or ± 1%, 0 to 3.5D  
± 3%, 3.5 to 4.0D

**Zero Stability**

± 0.01D max

**Calibration**

Automatic w / QuickCal™

**Measuring Area**

2mm x 4mm, 2mm in the  
direction of travel

**Measuring Location**

3.0 "from rightmost stop  
Adjustable stops in .5 "increments  
from .5 to 3.0 "  
Fixed slot for up to 38mm film

**Sample Characteristics**

Thickness: 0.003 to .015 "  
Size: Unit is open at one end and  
can accept any size sheet Sun  
long as it can be pulled evenly  
through the unit.

Patch size: .400 "(10.16mm) in minutes.

direction of travel by .350 "min. wide  
1mm wide 1.0D contrast space  
between patches or .5 D min  
difference between patches

**Transport Speed**

~ 1.2 "/ sec

**Measurement rate**

Adequate to measure patches.

4 "minimum in the direction of travel

**Communication Interface / Protocol**

(As described in the X-Rite DTP  
RCI manual)

I / O port: (10 circuit modular jack)

Patented bi-directional RS-232 at

<\_ 19.2k baud

Remote control: via standard X-Rite

DTP series RCI commands

This protocol Allows for RCI

downloading of custom measurement  
strips and display data remotely,  
calibration, and remote parameters  
configuration.

Data format: Transmitted in Density,

+ Dot-Dot, or Reflectance. Output

has x10 capability.

**Power Requirements**

& Connection

+12 V @ 700ma

2 circuit jack with 03.05 plus tip using @

either SE30-61 (115V) or SE30-62

(230VAC) adapter

**Physical**

Dimensions

2.75 "H

7.2 "W

6.0 "D

**Weight**

large 5.0 lbs.

net lbs 2.5.

**Environmental**

Operating temp. range +10 ° to +35 ° C;

30% to 60% RH.

Storage temp. range

-40 ° to +60 ° C, 5% to 95% RH.

**Accessories Provided**

Calibration Reference

Operation Manual

PC & Mac interface cables

AC adapter

Either 115VAC (P / N SE30-61) or

230VAC (P / N SE30-62)

**Optional Accessories**

RCI Interface Manual

(P / N DTP32-506)

Models

DTP32R

Reflection only 115VAC

DTP32TR

Reflection / transmission 115VAC

DTP32RX

Reflection only 230VAC

DTP32TRX

Reflection / transmission 230VAC

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