

# X-Rite®

## DTP32

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



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

The calibration of any color output device will drift over time, causing fluctuations in color and screen values. Colors may vary due to changes in room temperature, humidity, or changes in paper, toner, or other materials. The DTP32 automatic scanning densitometer 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 DTP32's auto scanning mechanism.
- The DTP32 sends density readings to the color 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 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 densitometers).
- Interfaces with IBM-compatible Macintosh® Sun, and SGI platforms.
- Fast, time-saving process – completes calibration in under five minutes.
- Optional DTP32TR offers combination transmission and reflection technology.
- Measures paper and film output.
- Small desktop footprint.
- Accessories included:
  - calibration reference
  - operation manual
  - PC/Macintosh interface cables
  - power supply

## Benefits

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



## Specifications

### Measuring Geometry

Reflection: per ANSI PH2.17/ISO 5/4 multi-sensor array

Optional Transmission: per ANSI PH 2.19/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 right most 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 so long as it can be pulled evenly through the unit.  
Patch size: .400" (10.16mm) min. in direction of travel by .350" min. wide  
1mm wide 1.0D contrast space between patches or .5D min difference between patches

### Transport Speed

~1.2"/sec.

### Measurement Rate

Adequate to measure patches .4" minimum in direction of travel

### Communication Interface/Protocol (as described in X-Rite DTP RCI manual)

I/O port: (10 circuit modular jack)  
Patented bidirectional RS-232 at ≤ 19.2k baud

Remote control: Via standard X-Rite DTP series RCI commands

This RCI protocol allows for downloading of custom measurement strips and display data, remote calibration, and remote parameter configuration.

Data format: Transmitted in Density, +Dot, -Dot, or Reflectance. Output has x10 capability.

### Power Requirements & Connection

+12v @ 700ma  
2 circuit 3.5 jack with plus @ tip using either SE30-61 (115VAC) or SE30-62 (230VAC) adapter

### Physical

Dimensions  
2.75" H  
7.2" W  
6.0" D  
Weight  
gross 5.0 lbs.  
net 2.5 lbs.

### 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 Adapters  
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



[www.x-rite.com](http://www.x-rite.com)

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