



DTP32 Series II

Automatic Strip Reading Densitometer for rapid Calibration of Color Output Devices

The DTP32 Series II provides calibration and quality control for PostScript® color copiers, color printers, and color proofing systems. The new X-Rite DTP32 Series II is **four times faster** than previous models.

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 Series II automatic scanning densitometer ensures consistent, accurate color on every job.



Specifications

Measurement Geometry

Reflection 0°/45°,
per ANSI PH2.17/ISO 5/4
Multi-sensor array

Light Source

Gas pressure filament lamp with
approximately 2850°K color
temperature
Lamp Life: approximately
1,000,000 scans @ 11" (279 mm)

Receiver

Blue-enhanced silicon photodiodes

System Response

ANSI/ISO Status T

Measurement Range

Reflection: 0.00D to 2.20D

Repeatability

±0.01D from 0.00D to 1.90D
±1 % from 1.91D to 2.20D

Inter-Instrument Agreement

±0.02D or ±2 % from 0.00D
to 2.20D, whichever is greater

Linearity

±0.02D or ±2% from 0.00D to
2.20D, whichever is greater

Zero Stability

±0.01D max

Measurement Rate

Approximately 5.4"
(137 mm) /second

Calibration

Automatic with QuickCal®

Measuring Area

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

Measuring Location

4.0" (101 mm) from the alignment
mark to the rightmost edge

Sample Characteristics

Thickness: 0.003" (0.076 mm) to
0.015" (0.381 mm)
Size: unit is open at one end and can
accept any size sheet as long as
it can be pulled evenly through
the unit.
Patch Size: 0.400" (10.16 mm)
minimum in direction of travel by
0.5" (13 mm) minimum wide, 1 mm
wide 1.0D contrast space between
patches, or 0.5D minimum
difference between patches

Communication Interface/ Protocol

(as described in X-Rite DTP RCI manual)
I/O Port: patented bi-directional
RS-232 at <= 19.2K baud rate
Communication Protocol: X-Rite DTP
series RCI commands
Data Format: transmitted in Density,
+Dot, -Dot, or Reflectance. Output
has x10 capability

Power Requirements

+12VDC @ 700mA maximum

Environmental

Operational Temperature Range:
10°C to 35°C
Humidity Range: 0% to 85% RH
non-condensing
Storage Temperature Range: -40°C
to 45°C
Transient Over-voltage: Category II
Altitude: 2000 m
Pollution Degree: 2
Usage: indoor only

Safety Compliance

Underwriters Laboratories:
UL 61010-1
Canadian Standards Association:
CSA 22.2 No. 1010.1-92
CENELEC: IEC (EN) 61010-1

Dimensions

2.7"H (69 mm)
4.5"W (114mm)
7.3"L (185mm)

Weight

Approximately 1.8 lbs (or 0.8 kg)

Standard Accessories

Calibration reference
DTP series CD
Serial communication cable
(integrated with the instrument)
+12VDC switching power supply
Line cord (North America)
Line cord (Europe)

Optional Accessories

25-pin Serial Adapter:
P/N SE108-231-01
Mac Serial Adapter:
P/N SE108-DB9PA-01