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DTP41 *Series II* AutoScan Spectrophotometer

Fast, Affordable, Versatile, Accurate Measurement Solution



Unsurpassed Accuracy

Whether your need is for color calibration, color process control or color management, the DTP41 Series II autoscan spectrophotometer gives exact color measurements. Utilizing spectral technology to measure color with unsurpassed accuracy, the DTP41 Series II provides the most precise and detailed description of color.

Offers Density and Colorimetry Functions

By measuring color with spectral technology, the DTP41 is able to offer a host of functions including density or colorimetry functions. It's wide flexibility has made the DTP41 an instrument of choice by all the major proofing systems, color management software and digital printing manufacturers.

Completely Automated and Widely Supported

Convenience and versatility are synonymous with the DTP41 Series II. It's fully automated to quickly measure a whole row of color information from a color target. It automatically sends the measurement data directly to your color software. Scans take only a few seconds allowing a typical ICC profile target to be scanned in under 10 minutes.

UV, Transmission and Wide Options

The DTP41 Series II offers a UV model to help deal with fluorescent paper brighteners commonly found in proofing papers. Reducing the fluorescent effect from the brighteners, the UV model will assure accurate color measurement on these medias. The transmission model offers dual reflection and transmission capability which is an extremely versatile tool for a variety of applications including photo transparencies, research and testing. Or, extend your reach with our wide version, which accommodates larger media sizes than the standard model.



With the press of a single button, the fully automated DTP41 scans a printed test image. Each scan takes only about 20 seconds, so in just a few minutes you can do everything from verifying color quality to creating full color ICC profiles.

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Measure Quickly And Accurately With The DTP41

With the DTP41 strip-reading spectrophotometer, you get high-end versatility and accuracy without sacrificing speed. In fact, the DTP41 is one of the fastest color measurement instruments on the market—up to 10 times faster than hand-held instruments or expensive robotic measurement devices.

The DTP41 measures an entire row from a printed test image in about 20 seconds. A single scan verifies the quality of your digital or conventional proofing system. Two or three scans usually completes a typical color calibration. And five or six scans is often enough to create a full color management profile.

Designed For Years Of Reliable, User-Friendly Performance

We packed the DTP41 with plenty of features. We also made it extremely easy to use. The instrument arrives ready to go, as there are no menus or difficult set-up procedures. The small footprint fits well in prepress and desktop environments. Plus, our rugged design absorbs those inevitable bumps and jolts without incident.

The true-tracking drive system aboard the DTP41 accepts a variety of media from lightweight copy papers to polyester printing plates. And the entire instrument is easy to troubleshoot and service for years of hassle-free operation.

The DTP41 Works As Part Of A Team

The DTP41 already supports many of today's color management systems. Just plug it into nearly any third-party color management application for colorimetric calibration, profile creation, profile tweaking, and color testing. And it is fully compatible with all major computing platforms, including Macintosh,® Windows, Sun,® and SGI.® With connectivity options including serial or USB, the DTP41 Series II has unbeatable connectivity. Support continues to grow as compatibility is currently being written into even more color software applications.

To ensure color control of your monitor, consider teaming your DTP41 with X-Rite's Monitor Optimizer to control your complete color imaging system. Also fully-compatible with most every color management software solution, it delivers all the accuracy you need to complement the color functionality of the DTP41.

Specifications

Measuring Geometry
Reflection 45°/0° per ANSI/ISO 5-4 (IT2.17)
Transmission 180°/0° (DTP41/T model) per ANSI/ISO 5-2 (IT2.19)

Spot Size At Sample
1.8mm (.070 in) in scan direction x 2.5mm (.097 in) wide

Light Source
Gas Pressure @ 2850°K

Spectral Sensor
DRS Technology, 24 point engine, 31 point reporting

Spectral Range
400nm to 700nm

Illuminant Types
A, C, D50, D55, D65, D75, F2, F7, F11 & F12

Standard Observers
2° & 10°

Density Responses
Status T, E, I, & A (plus Status M on DTP41/T model)

Measurement Time
Approx. 0.25 sec/patch (7mm patch)

Reflection Measurement (DTP41 & DTP41/T)

Inter-Instrument Agreement
0.3 ΔE cmc avg. typical
(avg. based on 12 BCRA tiles)

Measurement Range
0.00D to 2.50D; 0 to 160% R (reflection)

Repeatability On White
0.2 ΔE max.; ±0.01D max

Linearity
±.01D or 1%

Transmission Measurement (DTP41/T)

Inter-Instrument Agreement
0.02D or 2% typical, 0 to 3.0D

Measurement Range
0.00D to 5.00D; 0 to 110%T (transmission)

Repeatability
± 0.01D or 1%, 0 to 3.5D (visual)

Media Thickness
0.08mm (0.003 in) to 0.6mm (.025 in) for optimum scanning

Maximum Length Of Sheet
1400mm (55 in) (scanning direction)

Measuring Location (From Edge)
Columns of patches must fall within 100mm (4 in) insertable area on standard model, and within 225mm (9 in) insertable area on DTP41W9 model. Built-in guide for 35mm film

Minimum Patch Dimensions
7.0mm (.28 in) high in scan direction
12mm (.47 in) width recommended

Patch Quantities
1 minimum, 100 maximum per pass

Recommended Leader Length
38mm (1.5 in)

Minimum Footer Length
Greater of 30mm or 2 patch + 2 gap heights

Data Interface
RS-232 serial interface with baud rates from 1200 to 57.6k communication USB

Power Required
12v DC, Universal 100–240 VAC; 50–60 Hz adapter; 30W

Calibration
Calibration strips as needed

Environmental
+10° (50°F) to +40°C (104°F) operating
30% to 85% RH non condensing

Warm-up Time
None

Physical Dimensions
Height: 88mm (3.45 in)
Width: 184mm (7.25 in)
Depth: 114mm (4.5 in)

Weight
890g (1.96 lb), DTP41/T 1090g (2.40 lb)

Accessories Provided
Calibration Reference
Interface Cable: DB9 RS-232 and/or USB
AC Adapter

X-Rite calibration references are traceable to the National Institute of Standards and Technology through Munsell Color Science Laboratory RIT.

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