Non-Contact Imaging Spectrophotometers

Ci4200

Setting a new standard for color performance

In a competitive marketplace, there is increasing pressure to improve color quality in the lab and in manufacturing to reduce rework due to errors and to deliver a faster time to market.

The Ci4200 is an affordable benchtop spectrophotometer for small to medium-sized manufacturers across a variety of industries who are aspiring to implement a higher degree of color formulation and color quality control in their product development and production processes. When combined with a tiered offering of Color QC and Formulation software applications, it scales to support an evolving color program.

The advanced Ci4200UV adds the capability of self-calibrating UV illumination to accommodate evaluation of the effect of optical brightening and fluorescing agents that cause color to shift under different lighting conditions.

Benefits:

- Using standard measurement methods, immediately identify variances in color and gloss to ensure accurate color readings or to verify visual inspection (SPIN/SPEX).
- Produces correlated 60º gloss value for more accurate assessment of sample gloss in compliance with ASTM D523 and ISO 2813.
- With its **embedded NetProfiler**, manage performance and enable consistency across the supply chain regardless of where instruments are being used.
- Features **data compatibility** with X-Rite handheld spectrophotometers such as the Ci64 for ease of data exchange across the operation.
- LED membrane provides status and operation feedback with remote trigger and samples can be viewed and targeted with a sample arm for overall ease of use.

The Ci4200 is a reliable and accurate compact benchtop spectrophotometer that serves as the foundation for operations seeking to establish a color control program or those looking to improve an existing program that currently relies on non-spectral devices or visual inspection pass/fail methods. The result is a streamlined color workflow that delivers more accurate color performance.

Specifications

Short Term Repeatability - White	.05 ΔE*ab on white ceramic
Measurement Geometry	d/8°
Inter-Instrument Agreement	0.20 ΔE*ab avg.
Illumination Spot Size	14mm

Lamp Life	Approx. 500,000 measurements
Light Source	Gas-filled tungsten lamp + UV LEDs*
Measurement Cycle Time	≈ 2 seconds
Measurement Spot	8mm
Measurement Time	≈ 2 seconds
Photometric Range	0 to 200%
Photometric Resolution	0.01%
Spectral Analyzer	Blue-enhanced silicon photodiodes
Spectral Interval	10nm
Spectral Range	400nm-700nm
Spectral Reporting	10nm
Reflectance Aperture(s)	1
Humidity	5% to 85%, non-condensing
Operating Temperature Range	50° to 104°F (10° to 40°C)

Storage Temperature Range	'-4° to 122°F (-20° to 50°C)
Dimensions (length, width, height)	26.4cm, 19.0cm, 22.0cm
Weight	'5.2kg
Package Dimensions (length, width, height)	48cm, 33cm, 36cm
Shipped Weight	'10kg
Communication Interface	USB 2.0
Software Development Kit	XDS4
Voltage	100-240VAC 50/60Hz, 12VDC @ 2.5A
Warm Up Time	None
Calibration	White, Zero, UV*
Embedded NetProfiler Support	Yes
NetProfiler Support	Embedded

Sample Preview	Targeting window
Service Indicator	Status panel
Transform Support	Embedded
Warranty	12 months
What's Included?	Instrument with white calibration standard, black trap, green standard, manual(CD), AC adapter, USB cable, UV cal standard*
Windows	N/A
Security	N/A