



VeriColor® Spectro

Affordable Non-Contact Color Spectrophotometer

Improve quality control and reduce operating expense with this cost-efficient, in-line non-contact color measurement solution that provides absolute spectral and colorimetric data for process control. Easy to set up and manage, the system enables color control in real time to contain and eliminate color problems without disrupting production.

General Specifications

Title	Description
Instrument Type	Spectrophotometer
Geometry	0/30° , 30/0° (results based on 0/30°)
Monochromator	Dual beam, 31 channel
Light Source	Full System LED
Measurements Size	1" at 4" nominal to measuring surface
Measuring Distance	4" nominal to measuring surface
Acceptability to Variation in Depth of Measuring Field	+/- 0.20 inches (maximum 0.2 ΔE)
Operating Temperature Range	0 - 50°C (32 - 122°F) (performance based on 10 – 50°C (50 – 122° F))
Operating Humidity Range	0 - 85% relative, non-condensing
Storage	-20°C – 70° C (4 F – 158 F)
Operating Voltage	24 volt DC +/- 2.0 v
Communication I/O	RS-232,RS-485, PLC discreet
Functional Size	3" x 6" x 9"
Weight	2.81kg (6.2lbs)
Mounting Requirements	Manual Fixture
Enclosure	Designed to meet NEMA 4/IP56

Environmental

Title	Description
Usage	Indoor Only
Altitude	2000 m
Pollution Degree	2
Over Voltage	Category II

Safety Compliance

Title	Description
Underwriters Laboratories	UL 61010-1
Canadian Standards Assn.	CSA 22.2 No. 1010.1-92
International Electrotechnical Committee	IEC (EN) 61010-1

Performance Specifications

Title	Description
Short Term Repeatability	0.03 avg, / 0.05 max ΔEab (20 measurements at 3 sec. intervals on a white ceramic tile)
Long Term Repeatability	0.15 avg, / 0.20max ΔEab (over the calibration interval)
Inter-Instrument Agreement	0.30 avg., 0.5 ΔEab max. based on 12 BCRA Series II tiles
Calibration Interval	Validation recommended – 30 days / 50,000 measurements (whichever comes first) More frequent verifications may be required if cleanliness of the system is not maintained.

X-Rite: Your source for accurate color. On time. Every time.

X-Rite is a world leader in providing global color control solutions for manufacturing and quality management requirements. We lead the industry in offering service options to ensure uninterrupted performance of all X-Rite products. Training and educational resources are available globally and online for both new and experienced users to optimize their color measurement capabilities.

Visit xrite.com for more information about X-Rite products. X-Rite customers worldwide may also call the Applications Support team at CASupport@xrite.com or Customer Service at 800-248-9748.

X-RITE WORLD HEADQUARTERS

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System Components

- VS-410 VeriColor Spectro Spectrophotometer
- Calibration tube
- Interface cables
 - 5 meter RS 232
 - 5 meter PLC
- Windows-based setup and monitoring software
- Operation manual

Options

- 1, 3, or 10 meter extension cables
- Environmental enclosure (PN# VS410-801), includes
 - Enclosure
 - Mounting hardware
 - Water/oil separator
 - Air line (3.05m)
- Mounting stand (PN # VS410-800), includes:
 - Stand with X, Y, Z and angular measurement control
 - Tree light with Red, Amber and Green LED visual displays



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