



VS450

Non-contact spectrophotometer with gloss sensor

VS450 is a non-contact 45/0° geometry benchtop spectrophotometer designed for color and gloss measurements on many types of wet and dry samples including paints, powders and plastics. It includes an integrated gloss sensor providing 60 degree correlated gloss values, and has a versatile form factor which simplifies measurements on two and three dimensional objects.

VS450

Technology That Means Business



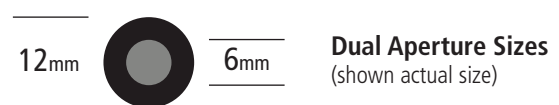
Product Features:

- Non-contact color measurement allows sample measurements from a distance, eliminating surface distortion caused by contact based measurement methods
- Full system LED illumination provides years of reliable performance
- Line of Sight™ visibility to the sample enables technicians to quickly and easily position the sample for measurement
- Active Visual Targeting™ projects a prominent illuminated target ring onto the sample for precise and accurate measurements
- Dual measurement spot sizes, 6mm (1/4") and 12mm (1/2") which can quickly and easily be switched without the need to recalibrate
- Integrated gloss sensor provides 60° correlated gloss values
- Versatile design improves measurement capabilities on two and three dimensional objects
- Best in class color accuracy and repeatability
- Patented technology

SPECIFICATIONS:

Instrument type:	Spectrophotometer with gloss sensor
Geometry:	45/0° dual illumination
Illumination:	Full spectrum LED
Spectral engine:	True Dual beam, 31 channel
Spectral range:	400 – 700 nm
Spectral interval:	10nm measured, 10nm output
Measurement range:	0-150% reflectance
Calibration interval:	once per week or temperature shift > 14° C (25.2°F) (self detected)
Measurement spot size:	6mm (1/4") and 12mm (1/2")
Measurement distance:	38mm (1 1/2") nominal lens to measurement surface
Short term Repeatability:	6mm 0.035 dE _{ab} Maximum (white ceramic tile) 12mm 0.025 dE _{ab} Maximum (white ceramic tile)
Inter-instrument agreement:	6mm 0.15 avg. dE _{ab} (12 BCRA tiles) 12mm 0.15 avg. dE _{ab} (12 BCRA tiles)
Gloss Geometry:	45/0°, 60° Correlated
Gloss Repeatability:	0-10 GU, ± 0.2 GU 10-100 GU, ± 0.6 GU
Gloss Reproducibility:	5-92 GU 3.0 GU maximum, 1.5 GU average
Operating temp:	10° - 40°C (50° - 104°F)
Humidity:	0-85% relative non-condensing
Operating voltage:	24v ± 2 VDC @ 1.2 A Max
Communication:	USB 2.0
Storage:	-20° – 70°C (4°F – 158°F)
Lamp life:	>20 million flashes
Functional size:	L: 9.75 in. (24.80 cm), W: 6.0 in. (15.24 cm), H: 5.57 in. (14.60 cm)
Functional weight:	4.931 lbs (2.24 kg)
Safety Compliance:	UL 61010-1, CSA 22.2 No. 1010.1 and IEC (EN) 61010-1
Usage:	Indoor Only
Altitude:	2000 m
Pollution Degree:	2
Overvoltage:	Category II

Design and specifications subject to change without notice.



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X-RITE WORLD HEADQUARTERS

Grand Rapids, Michigan USA • (800) 248-9748 • +1 616 803 2100

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