

# X-RiteColor® Premier 8000 Series

## HIGH-PERFORMANCE BENCHTOP SPECTROPHOTOMETER

<b>Preliminary Specifications</b>	<b>X-RiteColor Premier 8400</b> <i>(High-Performance Unit)</i>	<b>X-RiteColor Premier 8200</b> <i>(Mid-Range Unit)</i>
Spectrophotometer	Horizontal and vertical	Horizontal and vertical
Geometry	d/8°	d/8°
Sphere diameter	6" (Spectralon®)	6" (Spectralon®)
Specular component	Included/excluded	Included/excluded
Detector	Photodiode array with holographic grating (x2)	Photodiode array with holographic grating (x2)
Light source	Pulsed Xenon Illuminant A filter	Pulsed Xenon
Photometric range	0-200% 0-120% (high-resolution mode)	0-200%
Spectral range	360-740 nm	360-740 nm
Wavelength interval	10 nm	10 nm
Reflectance resolution	0.01% or 0.001% (high-resolution mode)	0.01%
Inter-instrument agreement	0.08 $\Delta E^*$ avg. 0.30 $\Delta E^*$ max. (12-BCRA tiles)	0.15 $\Delta E^*$ avg. 0.35 $\Delta E^*$ max. (12-BCRA tiles)
Repeatability (white)	0.01 $\Delta E^*$ avg.	0.02 $\Delta E^*$
Status indicator	LED	LED
Measurement time	< 2 sec. or < 4 sec. (high-resolution mode)	< 2 sec.
Weight	47 lbs.	47 lbs.
Software interface	USB	USB
Transmission measurement	Direct and total	Direct and total
Fluorescent measurement	Auto UV calibration	Auto UV calibration
UV exclusion filtration	400 nm and 420 nm	400 nm
View aperture size	4.0/8.0/19.0 mm	4.0/8.0/19.0 mm
Illumination spot size	6.5/12.7/25.4 mm	6.5/12.7/25.4 mm
Required computer	IBM compatible	IBM compatible
Required software	X-RiteColor® Master	X-RiteColor® Master
Sample holder	Dampening, with adjustable sample alignment platform	Dampening, with adjustable sample alignment platform
Sample positioning	Computer imaging with physical reticle	Computer imaging with physical reticle
Sphere protection	Internal sphere protection + optional cover for horizontal sample presentation	Internal sphere protection + optional cover for horizontal sample presentation
Standard warranty	1 year	1 year
Purchasable options	<ul style="list-style-type: none"> <li>• Sphere protection aperture plate</li> <li>• Transmission cell holder</li> </ul>	<ul style="list-style-type: none"> <li>• Illuminant A simulation filters</li> <li>• 420 nm UV exclusion filter</li> <li>• Sphere protection aperture plate</li> <li>• Transmission cell holder</li> </ul>
Power	110V 50/60 Hz. 230V 50/60 Hz.	110V 50/60 Hz. 230V 50/60 Hz.
Environment	Operating temperature 50° to 104°F (10° to 40°C) 85% RH non-condensing	Operating temperature 50° to 104°F (10° to 40°C) 85% RH non-condensing



ISO 9001  
Certified

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