

# Specifications

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# D25L Colorimeter

## Measurement

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<b>Measurement Principle:</b>	Tristimulus colorimeter
<b>Observer Function:</b>	2° standard observer
<b>Illuminant:</b>	Illuminant C
<b>Geometry:</b>	45° circumferential illumination/0° viewing
<b>Sample Port Orientation:</b>	Up for port-up model, down for port-down model
<b>Sample Measurement:</b>	
<b>Port Diameter:</b>	9.5cm (3.75 inch)
<b>Measured Diameter:</b>	8.9cm (3.50 inch)
<b>Specular Component:</b>	Excluded
<b>Photometric Range:</b>	0 to 125%
<b>Light Source:</b>	Continuous tungsten-halogen lamp
<b>Lamp Life:</b>	Approximately 1,000 hours
<b>Measurement Time:</b>	<1 second
<b>Short-term Repeatability:</b>	≤ 0.04 peak-peak XYZ (based on 20 consecutive readings of a white tile at 7 second intervals)

## Software

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<b>Color Scales:</b>	CIE L*a*b*, Hunter Lab, CIE LCh, R <sub>d</sub> ab, CIE Yxy, CIE XYZ
<b>Color Difference Scales:</b>	ΔL*a*b*, ΔLab, ΔLCh, ΔR <sub>d</sub> ab, ΔYxy, ΔXYZ
<b>Color Difference Indices:</b>	ΔE*, ΔE, ΔC, ΔECMC, ΔC*

<b>Indices and Metrics:</b>	ASTM E313 Whiteness Index, ASTM E313 Yellowness Index, ASTM D1925 Yellowness, Index, Z%
<b>Pass/Fail Tolerances:</b>	Tolerances for color scales and indices based on user selectable range or CMC automatic calculations
<b>Statistics:</b>	Average, standard deviation, maximum, minimum, range
<b>Data Storage:</b>	>100,000 measurements
<b>Languages:</b>	English, French, Italian, Japanese, Spanish Soon: Chinese, German

## Physical/Electrical

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<b>Display:</b>	26.4cm (10.4 inch) color LCD with touch screen
<b>Printer:</b>	Built-in 40-column thermal dot matrix
<b>Interface:</b>	USB and Ethernet
<b>Dimensions:</b>	
<b>Height:</b>	71.1cm (28.0 inches)
<b>Width:</b>	40.6cm (16.0 inches)
<b>Depth:</b>	61.0cm (24.0 inches)
<b>Weight:</b>	34.0kg (75 lb)
<b>Power:</b>	100 to 240 VAC, 47 to 63Hz 300VA
<b>Data Connection:</b>	USB and Ethernet
<b>Operating Environment:</b>	10° to 40°C (50° to 104°F), 10% to 90% RH, non-condensing
<b>Storage Environment:</b>	-20° to 70°C (-4° to 158°F), 10% to 90% RH, non-condensing
<b>Standard Accessories:</b>	Instrument standards, Spare lamp, Instruction manual, Power cord, Sample presenter, Lens brush, Lens wipes, Fuses, Printer paper, USB flash drive
<b>Optional Accessories:</b>	Sample cups, Sample dish, Light trap, USB 4-port hub, USB flash drive, External printer, USB-to-Serial adapter

For more information, please contact HunterLab at 703-471-6870, [sales@hunterlab.com](mailto:sales@hunterlab.com) or visit [www.hunterlab.com](http://www.hunterlab.com)

Specifications subject to change without notice