

**Compact
Powerful
Precise**



Agera[®] L2

*Level UP your Color Confidence with the new
Agera L2 Spectrophotometer.*

As simple as you want, as powerful as you need.

Agera L2 is now enhanced with Essentials 2.0 software, advanced illumination modes, a sealed spillproof case, stellar product updates and so powerful that no PC is required.



Explore the Next-Gen Agera®...L2

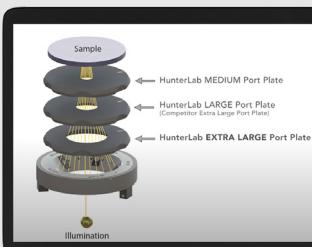
Meet the Agera L2 Spectrophotometer/Colorimeter, a breakthrough in measuring color the way the human eye perceives it, delivering visually meaningful, lab-grade accuracy with every reading.

Explore all the additional features and benefits below.



No. 1 Solution for Plastics with Optical Brighteners

Specialized Accuracy for Plastics: Combines D65 illumination and UV calibration guidance for accurate measurement of virgin, recycled, and brightened plastics, ensuring consistent quality and compliance.



Largest area of view

Extra-Large 50.8 mm (2-inch) Area of Measurement: Measures 4x the surface area of others in the industry—ensuring superior repeatability and accuracy across all applications, including challenges like textured, directional, and patterned sample types.

UV Calibration Modes

Accurate data: Maintain consistency for products containing optical brighteners or fluorescent materials. Enables accurate measurement of retro-reflective, fluorescent, and safety materials under true daylight conditions.

purple pellets		Agera2017-0319/0204 18:35	
		Sample (UV Included)	Sample (UV Excluded)
L*	52.57	52.50	
a*	1.44	0.68	
b*	-18.27	-17.10	
YIE	-64.70	-60.89	
WI Ganz	308.86	291.83	
UV Compare dE*	1.40	—	



Unmatched Accuracy on Dark Samples

Ultra Dark Mode: Achieves high precision when measuring dark, black, or complex materials such as textiles, papers, and plastics.

TEXTILES

retroreflectors

Neon Clothing

DOT signage

sports brands

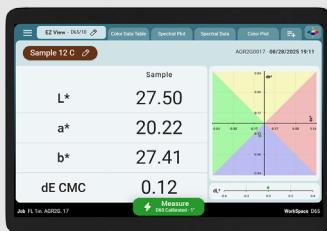
safety apparel

PLASTICS



Precision for Fluorescent Samples

D65 Source Mode: True CIE-quality D65 illumination. Quantify color the way the human eye perceives it, delivering visually meaningful, lab-grade accuracy with every reading.

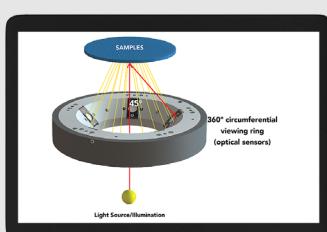


Simplified Operator Experience

New & Improved Color Software: Essentials 2.0 provides trusted lab-quality color data, built into the most intuitive color analysis interface ever, delivering fast, reliable results.

Rugged, Reliable Performance

Spill-Proof Case: Designed to withstand spills and heavy use in busy laboratory or production environments.



The Best Color Solution for QA

0°/45° Circumferential Optical Geometry: Aligns with human visual perception for results that correlate directly with appearance as perceived by the human audience.



Simultaneous Color & Gloss Measurement

Color + 60° Gloss in One Step: Captures both measurements simultaneously, streamlining workflows and reporting by eliminating the need for separate instruments.

Advanced Data Export and Communication

Full Suite of Data Communication Options: Features Ethernet and USB port for easy data export and printing. HDMI and additional USB port for mouse, keyboard and other accessories.



PLASTICS

DOT signage

safety apparel

sports brands

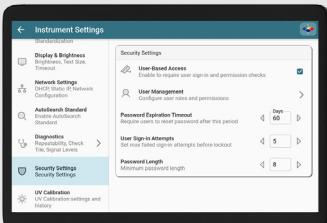
TEXTILES

Neon Clothing

retroreflectors

Built-in Camera for Sample Viewing and Screen Recording

Precision and Communication: Ensures accurate sample positioning to eliminate measurement discrepancies and allows easy sharing of recordings for swift quality control decisions.



Secure User Management System

Workflow Management: Role-based accounts (operator/admin) ensure secure data handling.

Multi-Industry Versatility

Broad Application Range: Serves diverse industries including plastics, safety apparel, neon clothing, DOT signage, retroreflectors, textiles, and sports brands.



CONTACT US

We've worked with thousands of companies, but you'll feel like our one and only. If color accuracy is crucial to your business, you've come to the right place—with the right people. Let's get in touch. Ask a question, Request a quote or just say hello!

OUR OFFICES & DISTRIBUTION CENTERS



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SPECIFICATIONS

Agera[®] L2

Patent #US 11,002,676 B2

MEASUREMENT

Measurement Principle:	Dual-beam Reflectance Spectrophotometer / Glossmeter
Geometry Color:	0°/45°c (circumferential) ASTM E1164
Gloss:	60°
Measurement Method:	Port up or Port forward
Read Time:	< 3 sec.
Image Capture:	High-resolution, D65 illuminated, 45°/0° image viewing, image capture and image recall
Port Plate Opening:	Color: XL - 53.97 mm (2.125 in), L - 28.57 mm (1.125 in), M - 17.47 mm (0.688 in)
Area Measured:	Color: XLAV - 50.80 mm (2 in), LAV - 25.40 mm (1 in), MAV - 15.89 mm (0.625 in)
	Gloss: 8 mm (5/16 in)
Illumination Range:	360 nm - 700 nm
Detection Range:	400 nm - 700 nm
Specular Component:	Excluded
Spectral Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
UV Control:	UV Included and UV Excluded with automated comparative data viewing and reporting. Factory calibrated with user option to calibrate to their specific fluorescent standard.
Light Source:	Full spectrum, balanced LED array
LED Life:	5 years typical
Spectrophotometer:	Sealed optics; 256-element diode array; high resolution concave holographic grating
Standards Conformance:	Color: CIE 15:2018, ASTM E1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C; Gloss 60°: ASTM D523, ASTM D2457, ISO 2813, ISO 7668, JIS Z 874

PERFORMANCE

Inter-Instrument Agreement:	Color: ΔE 2000 < 0.20 CIE L*a*b* (Avg) on CCSII (CERAM) Tile Set
	Gloss: 0 - 100 <= 0.5 GU
Repeatability:	Color: ΔE^* < 0.03 CIE L*a*b* (Max) on white tile
	Gloss: 0 - 100 GU: ≤ 0.1 GU



USER INTERFACE

Data Views:	EZ View, Color Data Table, Color Plot, Spectral Data, Spectral Plot, Chromaticity Plot
Other Features:	Pass/Fail Color Indication, time and date stamp, Auto-naming, auto-saving, Image Capture via high-resolution camera, average multiple measurements, time-based automatic measurements, data backup and recovery
USB Flash Drive Features:	Data Export: Job Data, Sample Images, Screen Capture and Database
Illuminants:	A, C, D50, D55, D65, D75, F02, F07, F11
Observers:	2° and 10°
Color Scales:	CIE L*a*b*, Hunter Lab, CIE L*C*h, CIE Yxy, CIE XYZ
Color Difference Scales:	ΔL*a*b*, ΔLab, ΔL*C*h, ΔYxy, ΔXYZ
Indices and Metrics:	E313 Whiteness Index, Ganz Whiteness Index, E313 Tint, Ganz Tint, E313 Yellowness, D1925 Yellowness Index, Y Brightness, Z%, 457 nm Brightness, Baking Contrast Units, ASTM E1349, ISO 18314-3 Blackness (My, Mc, dM) and Greyness (Gy, Gc, dG) ΔE*, ΔE, ΔC*, ΔE CMC, ΔE 2000, , dC*, dH*, Strength at Max. Absorbance, Strength weighted, Metamerism, Grey Scale Color, Grey Scale Stain, Shade Number 555
Color Difference Indices:	ΔE*, ΔE, ΔC*, ΔE CMC, ΔE 2000, , dC*, dH*, Strength at Max. Absorbance, Strength weighted, Metamerism, Grey Scale Color, Grey Scale Stain, Shade Number 555
Languages:	Supports multiple languages—with the option to add more as needed
Data Storage:	8 GB (> 1 million data records with images)

COMMUNICATIONS I/O

USB Connections:	Connectivity to printer, keyboard, mouse- Front panel (1); Rear panel (2)
Ethernet RJ45:	Print directly to standalone or network printers
External Inputs:	Stream data to LIMS and SPC systems
Remote Access Support:	Remote Footswitch or similar closed contact switching device

PHYSICAL / ELECTRICAL

Sensor Dimensions:	Height: 28 cm (11 in) Width: 22 cm (8.75 in) Depth: 31 cm (12.25 in) Weight: 7.7 kg (17 lb)
Display:	7" Capacitive touch screen, high-resolution (1280 x 800)
Interface:	3 USB ports, HDMI Video Output, Foot switch Input, Ethernet connection, USB Service Port, Convenient physical measurement/action button
Power:	Input: 100 to 240 VAC, 47 to 63 Hz to universal power supply @ 24 VDC (3.75A 90W)
Operating Environment:	10° to 40° C (50° to 104° F), 10 % to 90 % RH, noncondensing
Storage Environment:	-20° to 65° C (-5° to 150° F), 10 % to 90 % RH, noncondensing
System Components:	<ul style="list-style-type: none">• Agera L2 sensor • XL - 53.97 mm (2.125 in), L - 28.57 mm (1.125 in), M - 17.47 mm (0.688 in) port plates • Calibrated white tile (NIST Certificate of Traceability) • Calibrated Black Glass standard used for both color and gloss standardization • Diagnostic Check Tile (Green Tile)• 100V - 240V universal power supply • Agera L2 Quick Start Guide• Agera L2 User's Guide (electronic)

For more information, please contact HunterLab at 703-471-6870, sales@hunterlab.com or visit www.hunterlab.com