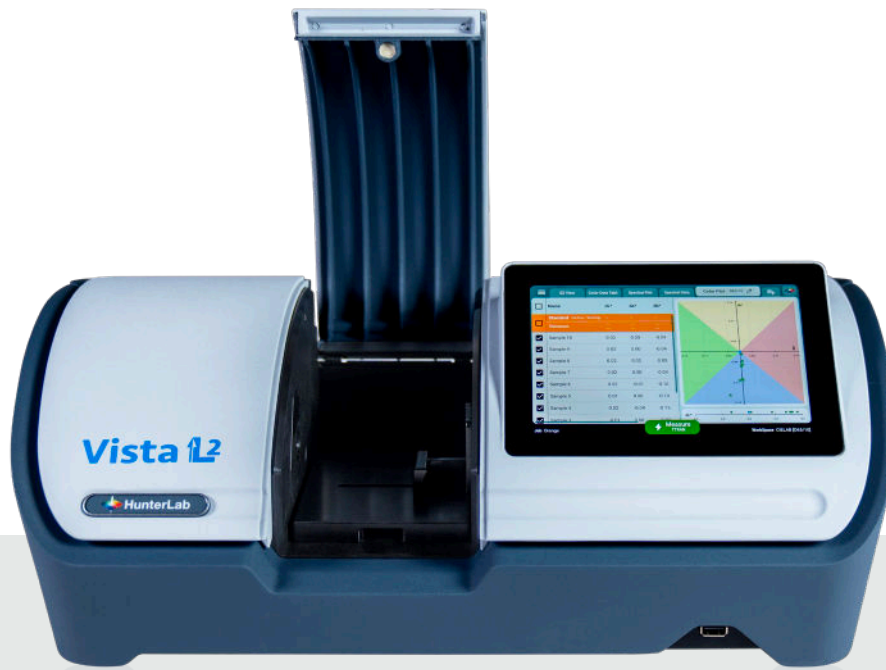


**Compact
Powerful
Precise**



Vista[®] L2-ER

*Level up your clarity and color confidence with
Vista L2-ER Spectrophotometer.*

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

Vista L2-ER is a transmission spectrophotometer for color and haze/turbidity measurement, built for regulated industries such as pharmaceuticals, petrochemicals, biotech, food and chemical manufacturing. It has role-based access, audit trails, electronic signatures, and traceable data export support FDA 21 CFR Part 11 compliance.

Vista® L2-ER

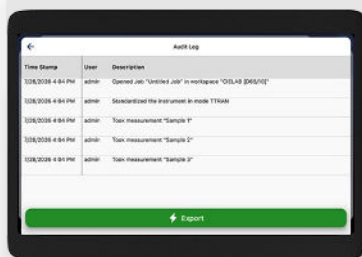


Vista L2-ER records each color measurement along with key metadata—including the operator, instrument serial number, calibration/standardization information, and date and time—and stores the results as protected electronic records in EasyMatch Essentials L2-ER.



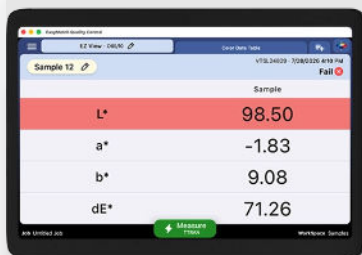
Explore all the additional features and benefits below.

A Locked, Reproducible Audit Trail



Vista L2-ER writes each result into a locked audit trail with an automatic date and time stamp, and can reproduce those records in human-readable and electronic form, whenever an inspector asks.

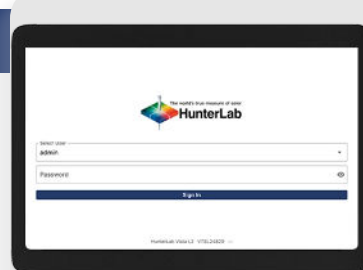
Pass/Fail Judgments, Views Your Way



Set up the data views each analyst wants to see, and let Vista L2-ER mark every reading pass or fail against your specifications as the measurement lands.

Controlled Access and Locked E-Signatures

Only authenticated users get in, and their role decides what they can do, while password management and locked electronic signatures bind each approval to a named person.



Bio-Pharma Liquids

EDIBLE OILS

Water

Petrochemicals

Transparent Plastic Film

BEVERAGES

White Sugar

Safflower Oil

Shortening

Olive Oil

Transparent Sheet Plastic

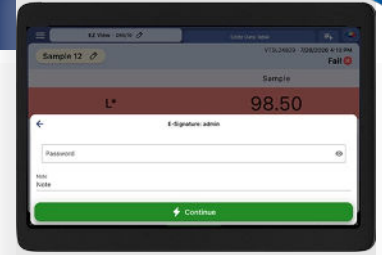
Colas/Syrups

Fruit Juices

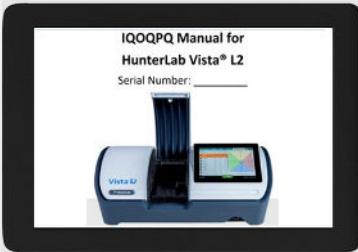
PLASTIC

Every Reading Fully Traceable

Because the operator, instrument, calibration, and timestamp travel with every result, you can trace any number back to how and when it was produced, without pulling a separate log.

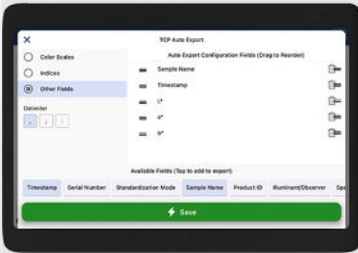


System Validation Documentation, Included



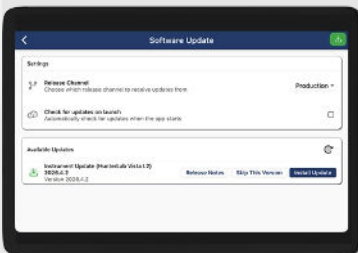
Vista L2-ER ships with a printable pdf Validation and Compliance Notebook built in; for IQ, OQ, and PQ documentation to support your FDA 21 CFR Part 11 validation from day one, backed by HunterLab's ISO/IEC 17025-accredited calibration.

Records That Reach Your Enterprise Systems



Records leave Vista L2-ER as PDF, CSV, or XLSX and move through its available ports into LIMS, SPC, and MES, so results reach your enterprise systems without anyone re-typing a number.

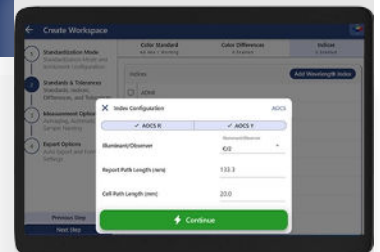
Update Locally, or Push Across the Network



Update Vista L2-ER by USB, online from the instrument, or remotely through EasyMatch Quality Central, which pushes update files over the network to every connected instrument.

Flexible Pathlength Measurement and Small Sample Volumes

Vista L2-ER gives absolute color with 10 mm to 50 mm cells and vials and, if needed, reports 5.25 inch or 1 inch pathlengths automatically, so you avoid costly, hard-to-clean specialty cells. It reads very small spectral differences on minimal sample volumes, which matters when biopharma samples are expensive.



Clear Liquid Detergent

CHEMICALS

Food Dyes

Sports Drinks

Palm Oil

Functional Beverages

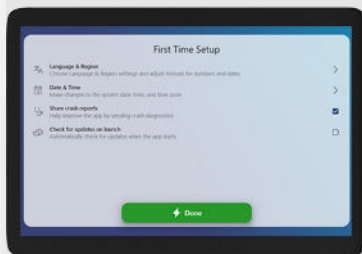
Tea Drinks

Vegetable Oil

Coconut Oil

FOOD

Citrus Juice



Self-Guided Out-of-Box Startup

Time-Saving and Easy to Use: Integrated setup wizard enables quick training and immediate operation, reducing on-boarding time and operator dependency.



Advanced Data Export and Communication

Seamless Connectivity: Features USB ports, HDMI, and peripheral support for easy data export, printing, reporting, and integration into existing workflows.

Connectivity with LIMS and SPC systems

Simplifies QC Workflows: Enables trend analysis and centralized data management across manufacturing sites for improved process control.



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!

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SPECIFICATIONS

Vista® L2-ER

MEASUREMENT

Measurement Principle:	Dual-beam spectrophotometer
Geometry:	Tt/0° or Td/0° per ASTM 1164, CIE 15:2018
Measurement Pathlength:	Up to 100 mm
Measurement Time:	2.5 seconds
Measurement Time with Haze:	5 seconds
Measurement Interval:	MIN 3 seconds
Port Size/Measured Area:	11 mm (0.43 in) illuminated/9.8 mm (0.39 in) measured
Transmission Modes:	Tt (TTRAN) and Td (RTRAN) and Haze

TECHNICAL

Flashes per Measurement:	4 flashes
Measurement Pathlength:	Up to 100 mm
Illumination and Measurement Range:	400 nm - 710 nm
Spectral Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
Photometric Resolution:	0.003 % (0.01 % reported)
Standards Conformance	
Colorimetric:	CIE 15:2018, ASTM E1164, DIN 5033 Teil 7 and JIS Z 8722 Condition E, G
Haze:	ASTM D1003
Light Source:	Full spectrum, balanced LED array
LED Life:	5 years typical
Sphere Diameter:	76 mm (3 in)
Sphere Coating:	Spectralon™
Spectrophotometer:	256-element diode array; high resolution concave holographic grating

PERFORMANCE

Colorimetric Repeatability:	< 0.02 ΔE^* on air
Spectral Repeatability:	Standard deviation within 0.1 % T
Inter-instrument Agreement:	$\Delta E^* < 0.15$ (Avg) (Transmission Filter Set) $\Delta E^* < 0.25$ (Max) (Transmission Filter Set) $\pm 0.30\%$ Measuring 10% Haze

USER INTERFACE

Data Views:	EZ View, Color Data Table, Color Plot, Spectral Data, Spectral Plot
Other Features:	Pass/Fail color indication, time and date stamp, auto-naming, auto-saving, data backup
Indices and Metrics:	APHA/PtCo/Hazen, ADMI, Saybolt, Gardner, ASTM D1500, Iodine, EBC, ASBC, ASBC Turbidity, Chinese Acid Wash, LOVIBOND® RYBN, AOCS RY, AOCS Cc 13d-55 Chlorophyll Concentration, FAC, YI E313 Yellowness, YI D1925, WI E313, CIE Y Transmission, US Pharmacopeia, Japanese Pharmacopeia, EU Pharmacopeia, Chinese Pharmacopeia EP, Opalescence, Haze, NTU, ICUMSA and OffHue
Color Scales:	CIE L*a*b*, Hunter Lab, CIE L*C*h, CIE Yxy, CIE XYZ
Color Difference Scales:	$\Delta L^*a^*b^*$, ΔLab , ΔL^*C^*h , ΔYxy , ΔXYZ
Color Difference Indices:	ΔE^* , ΔE , $\Delta E_{CMC}(l:c)$, CIE ΔE 2000
Data Storage:	32 GB (> 4 million data records)
Illuminants:	D65, C, A, D50, D55, D75, F02, F07, F11, TL84, ULT30, ULT35
Observers:	2° and 10°
Languages:	Supports multiple languages—with the option to add more as needed
Display:	Touch screen, high resolution 1280x800
External PC Software:	Compatible with EasyMatch Quality Central
FDA Title 21 CFR Part 11:	Electronic Records and Electronic Signatures

COMMUNICATIONS I/O

USB Connections:	Connectivity to keyboard, mouse, flash drive, barcode QR code scanner
Front Panel USB:	2.0 bidirectional, data export/import via thumb drive
Ethernet RJ45:	Print directly to network printers, stream data to LIMS and SPC systems

PHYSICAL / ELECTRICAL

Dimensions:	Height: 177.8 mm (7.0 in.) Width: 485.8 mm (19.125 in.) Depth: 228.6 mm (9.0 in.) Weight: 6.35 kg (14.0 lbs)
Transmission Compartment:	Height: 108.0 mm (4.25 in.)* Width: 101.6 mm (4.0 in.) Depth: 187.3 mm (7.375 in.) with cover on* <i>*Removable cover opens compartment on three sides (top, front, back) to accommodate large samples</i>
Base to Measurement Port Distance:	63.5 mm (2.5 in.)
Power Requirements:	100 to 240 VAC, 47 to 63 Hz, 60 W
Operating Environment:	10 to 40° C (50 to 104° F), 10 % to 90 % RH, noncondensing
Storage Environment:	-21 to 66° C (-5 to 150° F), 10 % to 90 % RH, noncondensing
Standard Accessories:	• Certificate of compliance • Validation Notebook for Vista L2-ER • Vista L2-ER Quick Start Guide • Stylus • USB Flash Drive • Cleaning Cloth • Power supply

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

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SpectraReflect is a Trademark of Labsphere

Specifications subject to change without notice