

**Compact
Powerful
Precise**



ColorFlex[®] L2 Citrus

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

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

Elevate your color accuracy and user experience like never before. Compact and ergonomic build requires minimal space while offering enhanced durability and reliability. Designed to streamline and expedite your quality control processes, ColorFlex L2 Citrus Spectrophotometer is expertly crafted to measure the color of tomatoes in all their processed forms, including paste/purée, sauce, ketchup, juice, and fresh tomatoes.

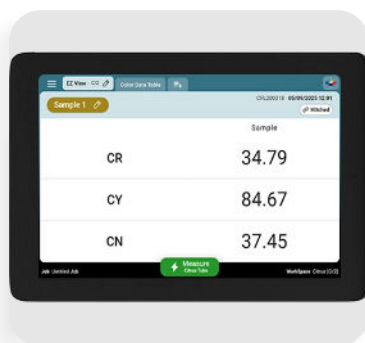


Explore the Next-Gen ColorFlex®...L2 Citrus



#1 Color Measurement Solution for Citrus Products

Citrus Standard and Accessories: Easy and accurate citrus color measurement with tailor-made accessories, including Calibrated Orange Juice 4 Standard and Orange Juice Tube Holder.



All the Citrus Scores and Indices You Need

Immediate Measurement: The ColorFlex L2 Citrus is specifically designed to measure the color of fresh and concentrated orange, grapefruit, and lemon juice. Includes all the citrus scores and indices you need, Citrus Number (CN), Citrus Redness (CR), and Citrus Yellowness (CY).

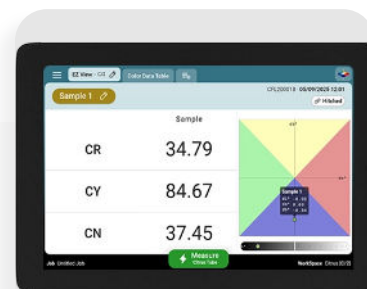
Modern Smart User Interface with Touchscreen Color Display

Durable and Efficient: Facilitates accurate color measurement in seconds, with a robust industrial glass design suitable for harsh environments.



New & Improved Color Software

Essentials 2.0: Take precise and reliable color measurement in seconds with next-gen user-friendliness and seamlessly analyze multiple tristimulus and spectral data sets. It's that powerful.

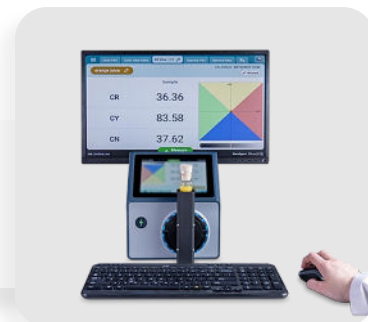


CITRUS



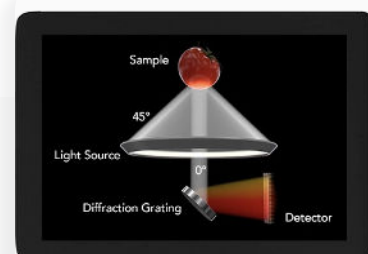
Powerful Standalone Functionality

No computer required: With huge onboard processing and storage capacity, ColorFlex L2 Citrus can function as an independent color workstation. Connect monitor, keyboard, and mouse if desired.



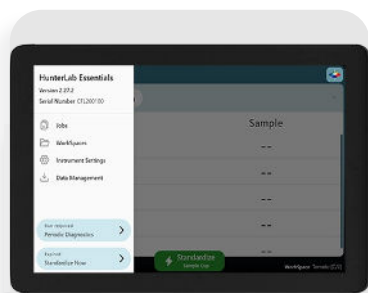
45°a:0° Annular Illuminated Optical Geometry

Superior Consistency and Color Accuracy: Enhancing the efficiency of Quality Control workflows and delivery of superior quality products repeatedly.



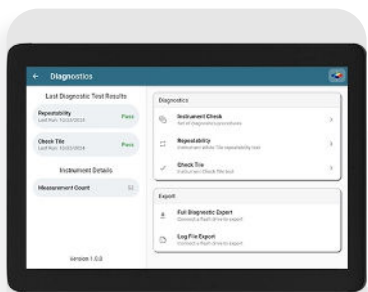
Self-Guided and Intuitive Out-of-Box Startup

Time-Saving and User-Friendly: Ready to use straight out of the box with an integrated wizard for quick training, reducing operator time and easing concerns related to staff training and turnover.



Built-in Advanced Diagnostics

On-Board Diagnostic Health Check: Ensures the HunterLab ColorFlex L2 Citrus is always operating at peak performance, continuing to build on the legendary history of reliability of the ColorFlex family of instruments.



CITRUS



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.

Connectivity with LIMS and SPC systems

Simplifies QC workflows: Aids in trend analysis and workflow simplification across manufacturing sites.



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 subject to change without notice

ISO 17025 Certified; ISO 9001 Certified; Certified

SPECIFICATIONS



ColorFlex[®] L2 Citrus

MEASUREMENT

Measurement Principle:	Port forward dual-beam spectrophotometer
Geometry:	45°a:0° Annular Illuminated Optics, ASTM E1164
Spectrophotometer:	Sealed optics; 256-element diode array and a high resolution concave holographic grating
Port Diameter/View Diameter:	31.8 mm (1.25 in) illuminated/ 25.4 mm (1 in) measured
Specular Component:	Excluded
Spectral Range:	Range: 400 nm - 700 nm
Spectral Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
Light Source:	Full spectrum Xenon Flash Lamp
Measurement Duration:	1 second
Lamp Life:	10 years typical
D65 Illumination:	Calibrated, Controlled D65 (Daylight) illumination
Standards Conformance:	CIE 15:2018, ASTM E1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C
Standards Traceability:	Instrument standard assignment in accordance with National Institute of Standards and Technology (NIST) following practices described in CIE Publication 44 and ASTM E259

PERFORMANCE

Inter-Instrument Agreement:	Color: $\Delta E^*2000 < 0.15$ D65/10 (Avg) on BCRA CCSII Tile
Colorimetric Repeatability:	Color: $\Delta E^*2000 < 0.05$ D65/10 (Max) on White Tile



USER INTERFACE

Data Views:	Color Data, Spectral Plot, EZ View, Spectral Data Table, 2D-Color Plot, Pass/Fail Color Indication, Time, and Date Stamp, Auto-naming, Auto-saving, Data backup
USB Flash Drive Features:	Job Data, Screen Capture and Database Export
Other Features:	Pass/Fail, Average Multiple Measurements, Set Multiple Automatic Measurements, Auto Export Data, Network Connectivity
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, Rd,a,b
Color Differences:	$\Delta L^*a^*b^*$, ΔLab , ΔL^*C^*h , ΔYxy , ΔXYZ , ΔE , ΔE^* , ΔE^*2000 , ΔH^* , ΔC^* , ΔE_{cmc} , dR_{dab}
Indices and Metrics:	E313 Whiteness and Tint (C/2°, C/10°, D65/2° or D65/10°), E313 Yellowness (C/2°, C/10°, D65/2° or D65/10°), D1925 Yellowness (C/2°), Y Brightness, Z%, 457 nm Brightness, Opacity, Color Strength (Average and Single Wavelength), Gray Scale, Gray Stain, Metamerism Index
Citrus Color Model Only:	Citrus Number, Citrus Redness, Citrus Yellowness
Data Storage:	1 million Records max; 8 GB
Languages:	Supports multiple languages—with the option to add more as needed

PHYSICAL / ELECTRICAL

Dimensions:	Height: 16 cm (6.25 in.) Width: 21 cm (8.75 in.) Depth: 24 cm (9.50 in.) Weight: 2.75 kg (6 lbs)
Display:	7" Touch screen, high resolution 1280x800
Interface:	2 USB ports, HDMI Video Output, Foot switch Input, Ethernet connection, USB Service Port, Convenient physical measurement/action button
Power:	90 – 240 VAC, 47 – 63 Hz to universal power supply @ 24 VDC/3.75A
Operating Environment:	10° to 30°C (50° to 86° F), 10 % to 90 % RH, noncondensing
Storage Environment:	-20° to 65°C (-4° to 149° F), 10 % to 90 % RH, noncondensing
Standard Accessories:	• Calibrated Orange Juice 4 Standard • Calibrated Instrument Standard (White Tile) • Diagnostic Check Tile (Green Tile) • Reflectance Black Glass • Orange Juice Tube Holder with 19.05mm (0.75 in) port plate • Port Plate - 31.8 mm (1.25 in) • Certificate of Traceability • Power Supply • Quick Start Guide

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