



Sphere Benchtop Spectrophotometers

Ci7520



A Complete Orange Juice Color Measurement Solution

Recently approved by the USDA for color grading orange juice, the Ci7520 spectrophotometer in conjunction with X-Rite Color iQC software can measure color and assign scores to achieve the OJ standard. Using a magnetically-attached integrated test tube holder to easily present samples and minimize instrument contamination, and the Ci7520 measures in reflectance mode to capture accurate color on orange juice and other liquids. Video preview ensures the correct sample measurement area, and Color iQC software archives an image of the measurement for a complete audit trail to deliver verified results.

The Ci7520 is a spectrophotometer approved by the USDA to measure and grade frozen

concentrated orange juice (FCOJ), canned concentrated orange juice (CCOJ), concentrated orange juice for manufacturing (COJFM), pasteurized orange juice (POJ), canned single strength orange juice (CSSOJ), and orange juice from concentrate (OJFC).

Benefits:

- Ensures color consistency and accuracy with a 0.15 ΔE^* inter-instrument agreement and 0.03 ΔE^* repeatability.
- Delivers consistent configuration across all locations and minimizes configuration errors with automated, software-driven set-up.
- Compliant with industry standards, including CIE No.15, ASTM D1003, and ISO 7724/1 and approved by the USDA for orange juice color score measurement.

Specifications

Calibration	White, Zero, UV
Communication Interface	USB 2.1
Dimensions (length, width, height)	56cm, 22cm, 31cm
Embedded NetProfiler Support	Yes
Humidity	5% to 85%, non-condensating
Illumination Spot Size	25mm, 10mm
Inter-Instrument Agreement	0.15 ΔE^*_{ab} avg.
Internal Temperature & Humidity Sensor	Yes
Lamp Life	$\geq 1,000,000$ measurements
Lamp Timer	Yes
Light Source	Pulsed Xenon, D65 calibration
Measurement Cycle Time	≈ 2.5 seconds

Measurement Geometry	d/8°
Measurement Spot	10mm, 25mm
Measurement Time	≈ 2.5 seconds
NetProfiler Support	Embedded
Operating Temperature Range	5°C to 40°C
Photometric Range	0% to 200%
Photometric Resolution	0.0001
Reflectance Aperture(s)	2 std / 0 optional
Sample Preview	Door and Video
Service Indicator	Status panel
Shipped Weight	25kg
Short Term Repeatability - White	.03 ΔE*ab RMS on white
Software Development Kit	XDS4
Spectral Analyzer	2D CCD array holography
Spectral Interval	10 nm (default); 20nm
Spectral Range	360nm-750nm
Spectral Reporting	10 nm (default); 20nm
Status Panel	Yes
Storage Temperature Range	-20° to 50°C

Transform Support

Embedded

UV Cutoff Filters

400nm

Voltage

100 to 240 VAC / 50 to

Warm Up Time

None

Warranty

12 months

Weight

20.5kg

What's Included?

Instrument with white c
standard, Aperture plate