ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *HunterLab UltraScan Pro* at our website: ***Click HERE***

SPECIFICATIONS

UltraScan® PRO

Measurement

Measurement Principle: Dual-beam spectrophotometer

Geometry: Diffuse d/8° reflectance, d/8° total transmission, d/0° regular transmission

Spectrophotometer: Two polychromators, each with a 512 element diode array and a high resolution, concave holographic grating

Sphere Diameter: 152 mm (6 in.)

Sphere Coating: Spectraflect™ for sphere, Duraflect™ for port plate and specular exclusion door

Port Size/Measured Area:

Port Diameter/View Diameter in RSIN/RSEX reflectance modes

Large Area View (LAV):	25 mm (1 in) illuminated/19 mm (0.75 in) measured
Medium Area View (MAV):	13 mm (0.5 in) illuminated/9 mm (0.35 in) measured
Small Area View (SAV):	7 mm (0.25 in) illuminated/4 mm (0.16 in) measured

Port Diameter/View Diameter in TTRAN transmittance modes

Large Area View (LAV):	25 mm (1 in) illuminated/17.4 mm (0.69 in) measured
Medium Area View (MAV):	25 mm (1 in) illuminated/13.2 mm (0.52 in) measured
Small Area View (SAV):	25 mm (1 in) illuminated/11.6 mm (0.46 in) measured

Port Diameter/View Diameter in RTRAN transmittance mode where lens is field stop for all areas of view

Large Area View (LAV):	17 mm (0.67 in) illuminated/17 mm (0.67 in) measured
Medium Area View (MAV):	17 mm (0.67 in) illuminated/17 mm (0.67 in) measured
Small Area View (SAV):	17 mm (0.67 in) illuminated/17 mm (0.67 in) measured

Lens Switching for LAV/MAV/SAV: Automatic

Specular Component: Automated Included (RSIN) or Excluded (RSEX) in reflectance

Spectral Range: 350 nm - 1050 nm full CIE visible range plus NIR

Wavelength Resolution: < 2 nm

Effective Bandwidth: 5 nm equivalent triangular

Reporting Interval: 5 nm

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Photometric Range:	0-150 %
Light Source:	Pulsed Xenon lamps (3), calibrated and controlled in the UV range
Automatic UV Control:	400 nm cutoff filter for UV control and UV exclusion Optional 420 nm cutoff filter for UV exclusion
Transmission Modes:	Total (TTRAN) and Regular (RTRAN)
Transmission Compartment:	Large and open on 3 sides 10.2 cm D X 35.6 cm W x 16.5 cm H (4 in. D x 14 in. W x 6.5 in. H)
Standards Conformance	
Reflectance:	CIE 15:2004, ISO 7724/1, ASTM E1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C
Transmittance:	CIE 15:2004, ASTM E1164, DIN 5033 Teil 7 and JIS Z 8722 Condition E, G Haze conformance per ASTM D1003 Section 8. Procedure B Spectrophotometer
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

Colorimetric Repeatability: (20 readings)	< 0.03 ΔE* CIE L*a*b * on white tile in LAV mode < 0.07 ΔE* CIE L*a*b* on blue denim tile in LAV mode
Spectral Repeatability:	Max 0.20 range between 435 nm and 695 nm
Inter-instrument Agreement:	ΔE*< 0.09 CIE L*a*b* (Avg) on BCRA II Tile Set ΔE*< 0.20 CIE L*a*b* (Max) on BCRA II Tile Set

Physical / Electrical

Dimensions:	Height: 32.3 cm (12.7 in.) Width: 42.0 cm (16.5 in.) Depth: 49.8 cm (19.6 in.) Weight: 25.9 kg (57 lbs)
Power:	90 to 250 VAC, 50 to 60 Hz 60 watts passive, 120 watts maximum
Interface:	RS-232C serial, 19,200 baud, DB9 (female) terminal
Operating Environment:	4° to 38°C (40° to 100° F), 10 % to 85 % RH, noncondensing
Storage Environment:	-21° to 66°C (-5° to 150° F), 10 % to 90 % RH, noncondensing (-5° to 150° F)
Standard Accessories:	• Calibrated instrument white tile • Certificate of traceability • Black calibration light trap • Transmittance zero calibration plate • Green diagnostic tile • Wavelength diagnostic filter • Fluorescent standard • Reflectance sample clamp • LAV aperture • MAV aperture • SAV aperture • RS-232C cable • USB-to-Serial adapter • Power cord • EasyMatch QC Software • EasyMatch QC Basic manual

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

UltraScan and EasyMatch are Trademarks of Hunter Associates Laboratory, Inc.
Spectraflect and Duraflect are Trademarks of Labsphere
Specifications subject to change without notice

02/13

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP