



# UltraScan<sup>®</sup> PRO



measure  
color  
the way your  
eye sees it





The UltraScan® PRO is the benchmark reference color measurement spectrophotometer against which all others are compared. It is ideal for demanding research and quality control applications. The UltraScan® PRO measures reflected and transmitted color, as well as spectral reflectance, spectral transmittance and transmission haze. It meets all CIE, ASTM and USP color measurement guidelines.

With exceptional inter-instrument agreement, precise spectral measurement and unsurpassed long term stability, UltraScan® PRO offers precise and reliable color measurement from opaque solids to clear liquids to transparent films.

## DESIGNED FOR

### LENSES

powders

PREFORMS

### PELLETS

Oil

TRANSLUCENT

Solids  
and Liquids

detergents

resins

pigments

COATED GLASS  
laminates

carpet

draw downs

Opaque  
Bottles

ADHESIVES

tiles

fibers

transmission  
cells

FABRIC

panels &  
plaques

lip balm

COLORANTS

all dry chemicals

FILMS

plastic plaques

Paint Chips

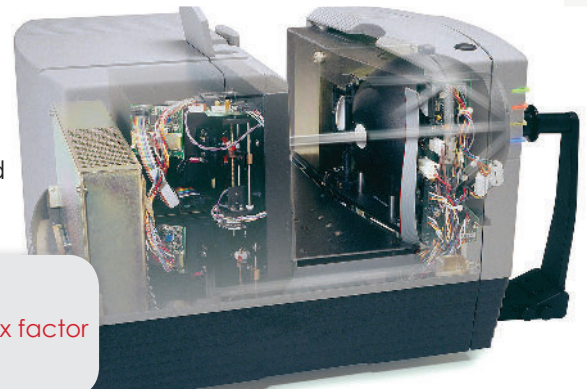
Metals

dyes Solids

## Exceptional Performance Built to Last

Underneath its sleek exterior lives an electronic assembly, ruggedly built in excess of specification on a rigid optical platform, ensuring years of reliable, accurate service.

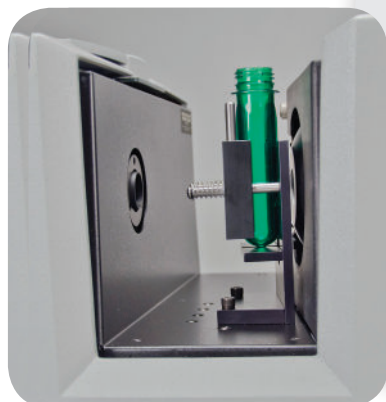
The flash Xenon light source generates virtually no heat, eliminates the effect of ambient light, and requires no warm-up. Measurements over the entire spectral range are made in a matter of seconds. Spectral data is collected every 2 nm and reported for every 5 nm.



- Aircraft grade stainless fasteners
- Solid ½" thick optical platform, eliminating flex factor
- Robust electronic subassemblies

## Versatile

In addition to measurement versatility, the UltraScan® PRO has available sample measurement accessories designed to hold virtually any type of solid or liquid sample for accurate and repeatable measurements. Use UltraScan® PRO for both research and quality control. The transmission compartment of UltraScan® PRO makes the measurement of over-sized samples easy and accommodates various sample handling devices. It is capable of measuring liquid volumes as small as 0.4 ml. The UltraScan® PRO has the ability to measure sample reflectance and transmittance as low as 350 nm, enabling the measurement of UV blocking characteristics of coated glass, sunglasses and other UV absorbers.



- Designed to measure opaque, transparent, and translucent samples
- 3 reflectance measurement area choices
- Automated specular exclusion and inclusion, for measuring reflected color with or without the effect of gloss or texture
- Largest transmission compartment in the industry, open on three sides, and with a convenient one-touch read button for initiation of sample measurement

## Accurate

The dual beam optical system has two state-of-the-art holographic grating polychromators with an effective bandwidth of 5 nm. The diffracted light is detected by a High IR sensitivity, 512 element linear array. Three long-life Xenon flash lamps mounted in a reflective lamp housing are used for illumination.

- Sphere geometry enables accurate transmittance measurements on scattering material and turbid solutions
- Provided wavelength calibration check filter
- 5 nm optical bandwidth
- Port insert underside finished to complete sphere geometry

## Features

- Fast measurement speed for full range measurement 350 – 1050 nm with 5 nm data output
- D65 illumination source is calibrated in the ultraviolet region for accurate measurement of whitening agents, UV blockers, and fluorescent colors
- 3 reflectance measurement areas:
  - Large Area View (LAV): 25 mm aperture
  - Small Area View (SAV): 13 mm aperture
  - X-Small Area View (XSAV): 7 mm aperture
- Read button for convenient initialization of sample measurement
- Ergonomic sample clamp for supporting a wide range of samples
- Status indicator lights visually indicate selected mode
- EasyMatch® QC Software included with instrument purchase



## The HunterLab Advantage

The UltraScan® PRO is backed by over 60 years of quality innovation and experience from HunterLab, the world's most trusted color quality experts.

With an unmatched reputation for delivering the right solution for any challenge, HunterLab tailors products and technologies for every color measurement need and budget offering the broadest range of color measurement solutions in the industry.

For more information go to [www.hunterlab.com](http://www.hunterlab.com)  
or contact your local HunterLab representative.





# Accessories



D02-1016-956

## Cell Holder Base Assembly

This Cell Holder Base Assembly with one or more clip-on holders (ordered separately) centers macro, semi-micro and ultra-micro, as well as other precision analytical cell holders in the transmission compartment of HunterLab sphere instruments. This assembly ensures repeatable transmission color measurements of very small volumes of clear liquids. Select one or more of the available precision cell holders by matching cell holder specifications with the desired glass or plastic analytical cells. Analytical cells are purchased separately by the customer.



13-8573-40  
04-4592-00  
13-8573-20

## Optical Cells

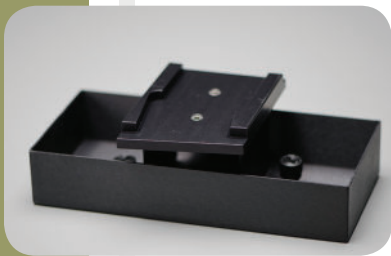
Optically clear glass cells with fixed path length of 10 mm, 20 mm or 50 mm. Sample volume 20 ml, 40 ml and 100 ml respectively. For use with Transmission Spill Tray and Cell Holder.



C02-1005-481

## Transmission Cell Holder

To use for placing transmission cells at the transmission port.



D02-1011-568

## Transmission Spill Tray and Cell Holder

Permits transmittance measurement of liquids using rectangular transmission cell.



C02-1005-444

## Transmission Clamp

Holds transparent film, glass or plastic in position for total or regular transmission measurement.

• Accessories and sample handling fixtures available for every industry application