

SpectraScan

5100 A and 5100 A Fluoro
Spectrophotometers



DESCRIPTION

SpectraScan 5100 A is a State-of-the-Art dual beam spectrophotometer for color measurement. It is extremely rugged in construction and very accurate in performance.

SpectraScan 5100 A is the result of our own in-depth study and sophisticated design after being in the field for long time, we have incorporated best features which can be seen on international class of spectros. It incorporates a highly advanced Holographic Diffraction Grating for dispersing reflected light, coupled with a highly sensitive and accurate discrete sensing photodiode array detector.

The integrating sphere conforms to CIE / ASTM specifications for size, which is 152 mm diameter. The source is a very stable long-life Xenon flash lamp which is carefully filtered to D65.

FEATURES*

- Reflectance And Transmission.
- Xenon Flash Lamp.
- Dual Beam.
- 360 nm to 740 nm.
- 10 nm Interval.
- Specular Include / Exclude.
- UV Cut off Filter.
- Selective Visible Cut off Filters for Fluorescence.
- LAV / MAV / SAV / VSAV Measurement Area.
- 152 mm Diameter Integrating Sphere.
- White tile Calibration.
- D/8 or D/0 Viewing Geometry.

* Some features are optional.



LEADER IN THE FIELD OF COMPUTERIZED COLOR MATCHING

SpectraScan 5100 A Spectrophotometer can be employed for a variety of applications.

Routine Measurements:

A very convenient measurement port allows you to measure day-to-day samples of paints, plastics, textiles, leathers, papers etc. There is a convenient drop down view of the samples for proper alignment of samples before measurement.

Measurement of awkwardly shaped Samples:

Awkwardly shaped samples can also be measured conveniently by removing the sample holding assembly.

Measurement of very small samples:

A unique optional 3mm diameter VSAV measurement port allows you to measure very small samples like print design.

Measurement of liquids and clear films:

An optional provision of transmission chamber, with accessories to hold either thin films or liquids, makes it possible to measure transmittance of liquid & clear film.

Measurement of fluorescent dyes & pigment:

Fluorescent samples mainly absorb one part of visible spectrum and emit in another part of visible spectrum. In order to study fluorescent samples, it is very important to cut-off radiation below a certain wavelength, in the visible range.

We optionally provide a set of visible filters that cut-off radiations covering the entire visible spectrum in steps, these filters can be easily attached in place of UV-Filter.

For example.

A 460 nm filter will cut-off all wavelengths upto 460 nm and will allow to pass all wavelength from 460 nm until 740 nm and above.

Measurement of optically brightened samples:

This is possible because of the provision of a UV cut-off filter. Photometric range is 0 to 200% reflectance. Measurement at 360 nm makes the study of optical brightening agent more useful.

Measurement of Capsules, Tablets, Yarn, Powders, Hanks and Granules:

Individually designed accessories help you to measure any unconventional samples.

Maintenance and service:

SpectraScan 5100 A

Spectrophotometer has been designed to be sturdy in lab and production conditions. It is made from carefully selected best available components which will ensure trouble free operation for many years. The design is modular and hence servicing can be done on-site.

Our strong team of service & application engineers are ready to provide services and back-up promptly.

SPECIFICATIONS*

MEASUREMENT MODES	: % RFL & %TRN
MEASUREMENT PRINCIPLE	: DUAL BEAM
SPHERE DIMENSION	: 152 mm Diameter
LIGHT SOURCE	: PULSED XENON
WAVELENGTH INTERVAL	: 360 nm To 740 nm
PHOTOMETRIC RANGE	: 0% TO 200%
OPTICAL CONFIGURATION	: D/8 OR D/0 VIEWING GEOMETRY
WAVELENGTH ACCURACY	: 0.1 nm (Avg.)
REPEATABILITY	: LESS THAN 0.1 ΔE CIELAB (WHITE TILE)
INTER INSTRUMENT AGREEMENT (LAV)	: 0.15 ΔE (Max.)
MEASUREMENT TIME	: 2 Sec.
LARGE AREA VIEW (LAV)	: 25.4 mm Diameter
MEDIUM AREA VIEW (MAV)	: 15.0 mm Diameter
SMALL AREA VIEW (SAV)	: 10.0 mm Diameter
VERY SMALL AREA VIEW (VSAV)	: 3 mm Diameter
UV FILTER	: IN / OUT
VISIBLE CUT-OFF FILTER	: 420 nm / 465 nm / 560 nm
SPECULAR COMPONENT	: INCLUDED / EXCLUDED
OPERATING TEMPERATURE	: 15°C To 32°C
RELATIVE HUMIDITY	: <90% NON-CONDENSING
ELECTRICAL REQUIREMENTS	: 110-120 VAC / 50-60 Hz. 230-240 VAC / 50-60 Hz.
WEIGHT	: 20Kg. APPROX.
SIZE	: 54 cm X 29 cm X 23 cm

* Some features are optional.

Marketed by:



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