

Spectrascan

5100RT and 5100RT Fluoro

SPECTROPHOTOMETERS



Spectrascan 5100RT



Spectrascan 5100RT Fluoro

DESCRIPTION

SpectraScan 5100 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 is the result of our own indepth study and sophisticated design after being in the field for last 14 years. We have incorporated the best of the 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 tube which is carefully filtered to D65.

FEATURES

- Reflectance And Transmission.
- Xenon Flash Lamp.
- Dual Beam.
- 10 nm Interval.
- 360 nm to 740 nm.
- Specular Include / Exclude.
- UV Cut - off Filter.
- LAV / SAV / VSAV Measurement Area.
- 152 mm Diameter Sphere.
- Selective Visible Cut - off Filters.
- White Tile & Black Trap Calibration.

(Some of the features are optional-See Specs.)

FROM A LEADER IN THE FIELD OF COMPUTERISED COLOR MATCHING

SpectraScan 5100 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 wavelengths, 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.

Optionally, there is a facility for measurement upto 300% with the help of a separate electronic circuitry.

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

Individually designed accessories help you to measure any unconventional samples.

Compatibility with other spectros:

SpectraScan 5100 can be made compatible with most existing spectrophotometers which will give you tremendous flexibility.

Maintenance and service:

SpectraScan 5100 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 (5100 R) % RFL & % TRN (5100 RT)
MEASUREMENT PRINCIPLE	: DUAL BEAM.
SPHERE DIMENSION	: 152 mm. Dia.
ILLUMINATION.	: PULSED XENON.
WAVELENGTH INTERVAL.	: 360 nm To 740 nm.
PHOTOMETRIC RANGE.	: 0% TO 200% (OPTIONAL 300%)
OPTICAL CONFIGURATION.	: d/8° VIEWING GEOMETRY.
ACCURACY.	: 0.1 nm (Avg.)
REPEATABILITY.	: 0.15 Δ E CIELAB (WHITE TILE)
INTERINSTRUMENT AGREEMENT (LAV).	: 0.20 Δ E (Max.)
MEASUREMENT TIME.	: 2 SECONDS.
APERTURE. --	:
LARGE AREA VIEW	: 25.4 mm Dia.
SMALL AREA VIEW	: 10 mm Dia.
VERY SMALL AREA VIEW	: 3 mm Dia. (OPTIONAL).
UV FILTER	: IN / OUT (5100 RT)
SPECULAR COMPONENT	: INCL / EXCL.
OPERATING TEMPERATURE.	: 15° To 32°C
RELATIVE HUMIDITY	: <90% NON-CONDENSING.
ELECTRICAL REQUIREMENTS.	: 110 - 120 VAC / 50 - 60 Hz. : 230 - 240 VAC / 50 - 60 Hz.
WEIGHT	: 20 Kg. APPROX.
SIZE	: 54 cm X 29 cm X 23 cm

Manufacturer :

RAYSCAN EQUIPMENTS & SERVICES PVT. LTD.

Unit No. 5065, 'A' Wing, 5th Floor, Bhandup Industrial Estate,
Pannalal Silk Mill Compound, LBS Road, Bhandup (W), Mumbai -400078.

* Specification subject to change without notice.

* Spectrometer of special configuration can be tailor made to suit your requirement.

Marketed by :



PREMIER COLORSCAN INSTRUMENTS PVT. LTD.

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