



SS 5100H Spectrophotometer

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SS 5100H Color Measuring Spectrophotometer is the result of our own in-depth study and sophisticated design after being in the field for over 30 years. We have incorporated features which can be seen on international class of spectros. SS 5100H has an advanced Aberration Corrected Concave holographic grating for dispersing reflected light, coupled with a highly 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.

SS 5100H Spectrophotometer has been designed to be sturdy in lab and production conditions. As the design is modular, servicing can be done at customer site.

SPECIFICATIONS (Standard Configuration)

MEASUREMENT MODES	: % Reflectance [†]
MEASUREMENT PRINCIPLE	: Dual Beam
INTEGRATING SPHERE DIMENSION	: 152 mm Diameter
LIGHT SOURCE	: Pulsed Xenon
WAVELENGTH RANGE	: 400 nm to 700 nm
WAVELENGTH INTERVAL	: 10 nm
PHOTOMETRIC RANGE	: 0% To 200%
VIEWING GEOMETRY	: D/8
WAVELENGTH ACCURACY	: 0.1nm (Avg.)
REPEATABILITY	: Less than 0.1 DE* CIELAB (White Tile)

INTER INSTRUMENT AGREEMENT(LAV)	: 0.15 DE* CIELAB (Max.)
MEASUREMENT TIME	: 2 Sec.
LARGE AREA VIEW (LAV)	: 25.4 mm Diameter
SMALL AREA VIEW (SAV)	: 12.0 mm Diameter
SPECULAR COMPONENT	: Include/Exclude
OPERATING TEMPERATURE	: 15°C to 32°C
RELATIVE HUMIDITY	: <90% Non-Condensing
ELECTRICAL REQUIREMENTS	: 110-120Vac/50-60 Hz.Or 230-240 Vac/50-60 Hz.
SIZE	: 61 cm X 29.5 cm X 33 cm
WEIGHT	: 21 Kg Approx

[†]Optional % Transmission Measurement Mode

*Specifications are subject to change without notice

SS 5100H SPECTROPHOTOMETER CAN BE EMPLOYED FOR A VARIETY OF APPLICATIONS.

Routine Measurements:

- A very convenient measurement port allows you to measure samples of paints, plastics, textiles, leathers, papers, food 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 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 food products:

- Vertical mounting arrangement facilitates measurement of pulps, juices & concentrates.

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 to 740 nm

Measurement of optically brightened samples (Need to order extended wavelength range 360 nm to 730 nm):

- 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, Health Care Products, Yarn, Powders, Hanks and Granules:

- Individually designed accessories help you to measure any unconventional samples.

OPTIONAL ACCESSORIES*

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|--------------------------------|-------------------------|
| • Capsule Holder | • Tablet Holder |
| • Thin Film Holder | • Float |
| • Transmission Cuvette | • 40mm Cuvette & Holder |
| • Reflectance Cuvette & Holder | • 10mm Cuvette Holder |
| • Tomato Reference Tile | • Hank Holder |
| • Black Trap | • Sample Measuring Cup |

OPTIONAL FEATURES*

UV FILTER	: In/Out
MEDIUM AREA VIEW(MAV)	: 5.0 mm x 10.0 mm
VERY SMALL AREA VIEW (VSAV)	: 3mm Diameter
MEASUREMENT MODE	: Transmission
CUT OFF FILTERS	: Selective Visible Cut of 420 nm/465 nm/560 nm
UV, SPECULAR, AREA VIEW STATUS	: LED Status Display
VIEWING GEOMETRY	: D/O Geometry
EXTENDED WAVELENGTH	: 360 nm to 730 nm



*Quotes for optional features & accessories are available on request



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