A precision lightweight spectrophotometer designed to take spectral measurements while tethered to your PC.

This simple to use, lightweight spectrophotometer allows the user to take spectral measurements linked to a PC. This small, but accurate spectrophotometer features a 8mm aperture. The fast measurement time permits you to quickly see the calculated color values or spectral reflectance curve in the software display on your PC.

Features

- Compact, rugged and reliable.
- Consistent, accurate readings.
- 45/0 measurement geometry.
- Built-in captive white calibration reference in the cradle. No black calibration reference required.
- Requires only power outlet and a serial communications or USB connection to the host computer.
- Virtually no maintenance required. Just keep it clean.
- Includes spectrophotometer, cabling, cradle and user manual.
- Backed by X-Rite one-year limited warranty.

Benefits

- Designed for use with ColorDesigner® software.
- Greatly simplifies the color measurement process.
- Measures a wide variety of color samples 1/2 " or larger including paper, plastic, fabric, painted surfaces and many others.
- Easy to use with minimal training.

Specifications

Measurement Functions	Spectral reflectance, 400-700nm, 10nm interval. XYZ, Yxy, L*a*b*, L*u*v*, and L*C*H°.
Illuminant/Observer	A, C, D50, D55, D65, D75, F2, F7, F11, F12. 2° or 10°.
Spectral Sensor	DRS spectral engine. 16 band, 400-700 nm spectral range, 20 nanometer interval, 45°/0° geometry meeting ISO & ANSI standards. 8mm diameter measuring area. Pulsed gas filled tungsten, no warm-up.
Performance	0 to 200% reflectance. 20nm intervals, 400nm to 700nm range. 0.30 DE_{ab} avg. 12 BCRA Series II Tiles. 0.10 max DE_{ab} white repeatability on ceramic.
I/O Connection	DB9 for IBM® compatible serial port, or USB for universal serial BUS.
Data Interface	RS-232 serial interface with baud rates from 1200 to 19.2K communication via RCI commands.
AC Adaptor Requirements	12v DC (1.25A) AC power supply, universal 100-240VAC.
Environment	+10° to + 40°C operating 85% RH maximum non-condensing.
Software	Interfaces with ColorDesigner®.
Physical Dimensions (H x W x L)	3.3 x 3.2 x 7.5 inches 8.4 x 8.1 x 19.1 cm
Net Weight	16.6 oz. (470 g) + base 10.6 oz. (300 g)
Model Numbers	RM400 – Serial RM400X – Serial with with 240v line cord RM400U – USB RM400UX – USB with with 240v line cord
Installation Rating	FCC Class A, UL Listed, CSA Certified, type Cat II CE.

*X-Rite standards are traceable to NIST (National Institute of Standards and Technology, USA), Calibration Report MCSL-18, National Research Council Canada, Laboratory For Basic Standards.