



The PR-525 ColorMate

Modern Technology

The PR-525 ColorMate brings hand-held, colorimetric measurements into the 21st century. It features a backlit touch-screen LCD display, USB interface, Se3cure Digital (SD) card slot and rechargeable lithium-ion battery. Measuring refreshing sources? The PR-525 automatically syncs to non-DC signals. The PR-525 can be triggered remotely, and once triggered, will send a pulse to a remote device

such as a xenon strobe. This way, single event sources can be measured.

Ease of Use

All set-up parameters, data display and management is handled by "touching" through menus on the on board display. Making a measurement is as easy as pressing the only button on the PR-525 - the measurement button.

15 Heads are Better Than One

If you have a need to make simultaneous color measurements of multiple areas, say uniformity of a projected image, the PR-525 can be outfitted with up to 15 remote heads (PR-515 Remote Head) all individually addressed and controlled from a PC talking to the PR-515 base unit using the included PR-525 software.

Luminance Measurements

For luminance measurements, the optional PR-523 SpotMate replaces the standard cosine difuser. The PR-523 features true Pritchard Optics for unambiguous target alignment capability.



PR-525 ColorMate



PR-515 Remote Head



PR-523 SpotMate

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Data Transfer

Following measurements, data can be sent to a PC via the USB interface or the multi-media storage medium (SD card) can be removed and inserted into a card reader connected to a PC.

Features

- Illuminance (footcandles and lux) - Luminance (footlamberts and cd/m² with PR-523)
- CIE Chromaticity (x, y, u', v')
- Correlated Color Temperature
- Back Lit / Touch Screen Display
- USB Interface
- Removeable Storage (MMC or SD)

Standard Equipment

- PR-525 with illuminance adapter
- Rechargeable lithium-ion battery
- AC Adapter
- Carrying Case
- Secure Digital (SD) Card

Applications

- Room Lighting
- Illuminance Chromaticity
- Digital projector chromaticity
- Illuminance and color uniformity
- Set lighting / color temperature
- Ergonomic testing



PR-525 ColorMate Specifications

Standard Equipment	PR-525 Colorimeter with Illuminance Measuring Head, Lithium-ion battery, MMC, carrying case, AC Adaptor, Secure digital (SD) card 'Explorer' PC software
Digital Resolution	20 Bits
Display	Backlit Touch Screen LCD
Sync Range	20 to 400 Hz
Measurement Modes	Illuminance (lux or footcandles) Chromaticity (CIE x, y, u', v', CCT) Luminance (with PR-523)
Options	PR-515 Remote Heads (up to 15)
Illuminance Range	0.01 - 400,000 lux (0.001 - 40,000 footcandles)
Illuminance Accuracy	± 2% when measuring NIST traceable illuminance standard at 2856 Kelvin (Illuminance A)
Illuminance Precision	≥ 0.35% at 0.1 lux (0.01 footcandles)
Minimum Illuminance for Color Measurements	1 lux (0.1 Footcandles) at 2856 Kelvins (Illuminant A)
Color Accuracy	± 0.0015 in CIE 1931 x, y measuring Illuminant A (2856 Kelvins)
Color Precision	≥ 0.0005 in CIE 1931 x, y measuring Illuminant A (2856 Kelvins)
Measurement Storage	Internal or Secure Digital (SD) card. Capacity: Internal: 100 Measurement Buffer (while unit is on). External: For a 32M Card: Approx. 52,000 measurements (approx. 600 bytes per measurement)
PR-523 Specifications	Luminance Range: 1.19 to 35,700,000 cd/m ² (0.35 to 10,500,00 footlamberts)
	Luminance Accuracy: ± 2% when Measuring Illuminant A based Luminance Standard.
	Luminance Repeatability: ≥ 1% measuring Illuminant A at 1.19 cd/m ²
Power	Rechargeable lithium ion battery - charges in the PR-525 while connected to the external supply.
Battery Life	6 hours continuous use (without backlight)
Interface	USB
Weight	9.0 ounces (255 grams) without battery
Dimensions	Main Body: 4.73 x 3.0 in. (17.5 x 7.62 cm) Measuring Head: 2.17 x 3 in. (5.51 x 7.62 cm)



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