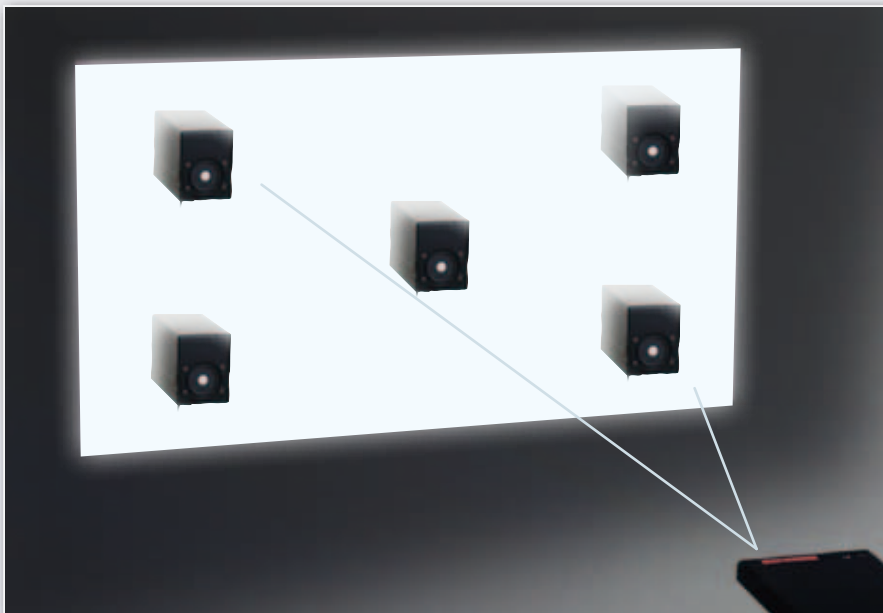


White Balance Adjustment of Laser Display

Fastest in Industry

RGB mixed light input delivers high-speed measurement of centroid wavelength and optical power for each red, green and blue individually

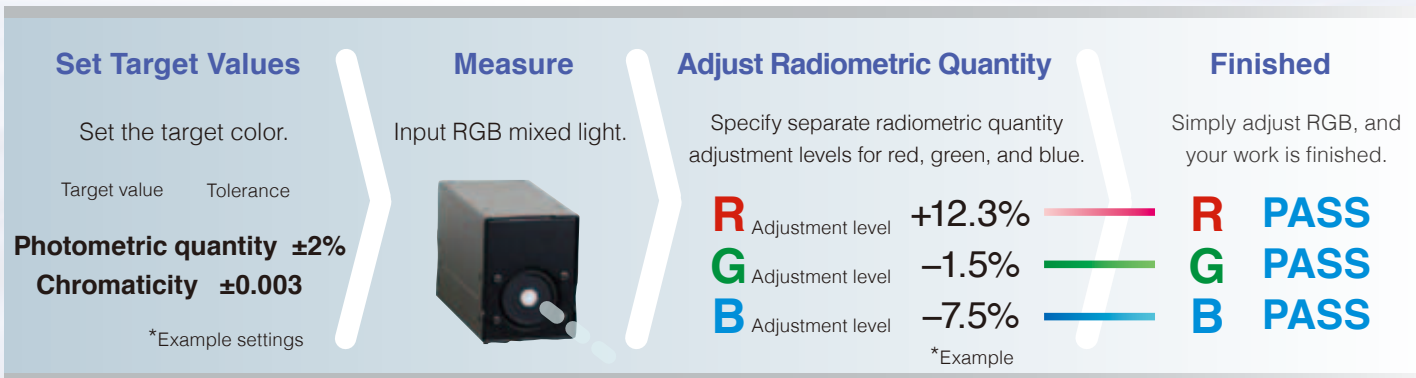


Simultaneously measure 11 optical properties

- Centroid wavelength (R/G/B)
- Radiometric quantity (R/G/B)
- Photometric quantity (R/G/B)
- Radiometric quantity (RGB mixed light)
- Photometric quantity (RGB mixed light)
- Tristimulus values
- Chromaticity (xy,u',v')
- Correlated color temperature
- Delta uv
- Dominant wavelength
- NTSC ratio

White balance adjustment assistance function for complete navigation of adjustment work

Knowing the adjustment range for the RGB radiometric quantity lets you easily adjust the white balance.



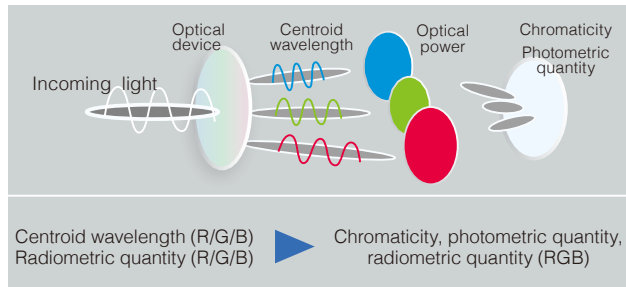
HIOKI's original "discrete centroid wavelength method" achieves highly accurate and stable laser metering that is almost equal to spectroscopic methods.



Ideal for HMD, HUD, and laser projector production lines

Spectroscopic-level accuracy in a colorimeter-sized device: "Discrete Centroid Wavelength Method"

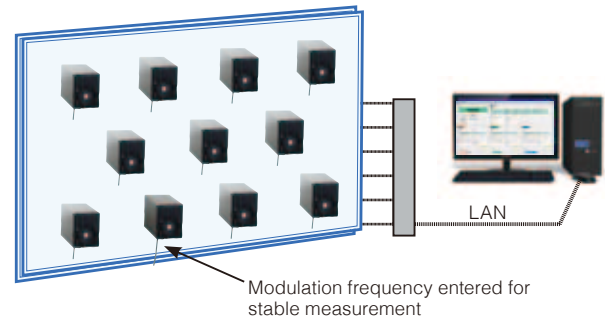
Incident light is separated into three wavelengths corresponding to RGB, and centroid wavelength and radiometric quantity are measured simultaneously for red, green, and blue. Chromaticity and photometric quantity are calculated from centroid wavelength and radiometric quantity, giving highly accurate measurements almost equal to those obtainable by spectroscopy.



Measurement Using the Discrete Centroid Wavelength Method

Modulation frequency measurement (SYNC) function for laser display measurement

A SYNC function, indispensable for stable measurement, is built in. This lets you stably measure modulation frequencies taking the scanning timing of the display into account, and is ideal for production lines requiring a multipoint measuring system.



Specifications

		RGB LASER ILLUMINANCE METER TM6102	RGB LASER LUMINANCE METER TM6103	OPTICAL POWER METER TM6104
Radiometric quantity	Measurement parameter	Irradiance	Radiance	Radiant flux (Optical power)
	Max. input	200 [W/m ²]	600 [W/sr m ²]	130 [mW]
	Min. range	50.0000 [mW/m ²]	500.000 [mW/sr m ²]	4000.00 [nW]
Photometric quantity	Measurement parameter	Illuminance	Luminance	Luminous flux
	Measurement range	0 to 110 000 [lx]	0 to 300 000 [cd/m ²]	0 to 60 [lm]
Centroid wavelength	Blue	435 nm to 477 nm		
	Green	505 nm to 550 nm		
	Red	615 nm to 665 nm		
Other optical properties	Tristimulus values XYZ, chromaticity (xy,u'v'), correlated color temperature, Delta uv, dominant wavelength, NTSC ratio, white balance radiometric quantity target value			
SYNC	Modulation frequency measurement range: 10 Hz to 300 Hz			
Interface	LAN (TCP/IP) *Not displayed on the main unit.			
Dimensions	65 mm (2.56 in) W x 83 mm (3.27 in) H x 126 mm (4.96 in) D	65 mm (2.56 in) W x 83 mm (3.27 in) H x 175.7 mm (6.92 in) D	65 mm (2.56 in) W x 83 mm (3.27 in) H x 135.5 mm (5.33 in) D	
Mass	700 g (24.7 oz)	790 g (27.9 oz)	720 g (25.4 oz)	

RGB Laser Measuring Instruments Available by the end of June 2017

Model	Model No. (Order Code)
RGB LASER ILLUMINANCE METER TM6102	TM6102
RGB LASER LUMINANCE METER TM6103	TM6103
OPTICAL POWER METER TM6104	TM6104



Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

HIOKI

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