

## VDU-1160 2D Spectral Imaging Colorimeter

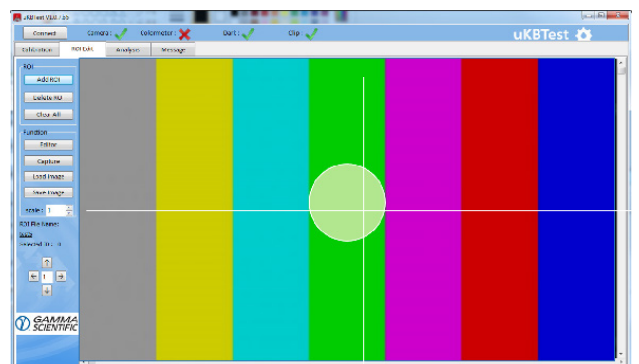
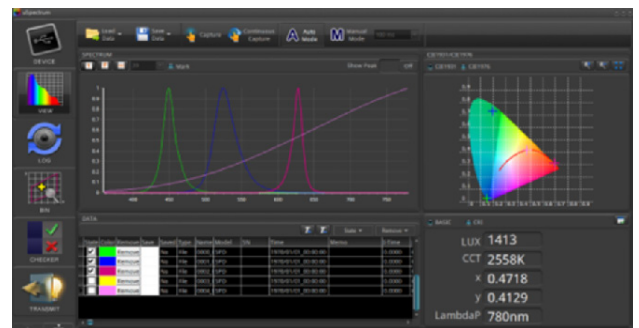


The VDU-1160 is a next generation family of 2D spectral imaging colorimeters combining the strengths of a CCD image sensor and high performance spectroradiometer. This results in a rapid and highly accurate system for display measurements including luminance, correlated color temperature (CCT), CIE chromaticity, spectrum and uniformity. The system is particularly well suited for test and characterization of LCD, LED, OLED and quantum dot displays. Laboratory grade accuracy and flexibility are combined with high speed and durability for demanding production environments.

## Rapid, Accurate and Repeatable Display Characterization

### Features

- 2D Luminance, CCT, CIE x, y, u', v' and uniformity
- Contrast, white balance and color gamut determination
- User-programmable regions of interest
- Auto darkness and flat field correction
- Spectral measurement and data including spectrum, peak and dominant wavelength
- ISO 17025 certified and NIST traceable calibration



Specifications		
Luminance <sup>(1, 2, 4)</sup>	Measurement range (for accuracy and repeatability)	0.005 to 5,000 cd/m <sup>2</sup>
	Accuracy	± 1.5% from 0.1 to 5,000 cd/m <sup>2</sup>
		± 4% from 0.005 to 0.1 cd/m <sup>2</sup>
Repeatability (2σ) <sup>(3)</sup>	0.5% from 0.005 to 5,000 cd/m <sup>2</sup>	
Color <sup>(1, 2, 4)</sup>	Measurement range (for accuracy and repeatability)	0.005 to 5,000 cd/m <sup>2</sup>
	Accuracy	± 0.001 in CIE 1931 x,y for white from 0.1 to 5,000 cd/m <sup>2</sup>
		± 0.002 in CIE 1931 x,y for white from 0.005 to 0.1 cd/m <sup>2</sup>
	Repeatability (2σ) <sup>(3)</sup>	0.0005 in CIE 1931 x,y for white from 0.1 to 5,000 cd/m <sup>2</sup>
0.0015 in CIE 1931 x,y for white from 0.005 to 0.1 cd/m <sup>2</sup>		

1. Luminance and color testing are based on white color with correlated color temperature @ 7200K. Specifications are subject to change without notice.
2. Measure in normal mode with temperature 23° ±2°C and relative humidity ≤50%.
3. Repeatability test is based on the status of shutter opening.
4. Under 0.1 nits luminance level, measurement is done by camera only.