

MD100N 光谱式亮度计



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随着 4K, 8K 高画质 OLED 时代的来临, 为了更精准的检核 OLED 面板, UPRtek 推出一款高质量色彩分光频谱式辐射亮度计 -MD100N 除了具有分光光谱式的高精度特性表现, 更体现快速量测能力, 专为显示器生产线测量而定制。

具备了测量白平衡、色域、Gamma 曲线乃至闪烁度的功能。

仪器的独特设计充分消除了机械及电路噪声, 使 MD100N 在低亮度时也能进行重复性很好的迅速测量。

MD100N 提供开发工具包 (SDK), 可轻松、灵活地实现编程将仪器集成到传统的显示器生产线中。

MD100N Spectroradiometer		
Spectrum		
Sensor	CMOS Linear Image Sensor	
Wavelength Range	380 to 780 nm	
Wavelength Data Increment	1 nm	
Spectral Bandwidth	Approximately 12 nm (Half Bandwidth)	
Receptor Size	Ø 10 mm	
Acceptance angle	± 1° *1	
Wavelength Reproducibility	± 1 nm *2	
Display Range	0.001 to 5000 cd/m ²	
Luminance *3	Measurement range	0.05~5000 cd/m ²
	Accuracy	± 2% 100 to 5000 cd/m ²
		± 3% 0.2 to 100 cd/m ²
		± 4% 0.05 to 0.2 cd/m ²
Repeatability (2σ)	0.2% 100 to 5000 cd/m ²	
	0.5% 0.2 to 100 cd/m ²	
	0.8% 0.05 to 0.2 cd/m ²	
Color*3	Measurement range	0.05~5000 cd/m ²
	Accuracy	± 0.002 in CIE1931 x, y for white 100 to 5000 cd/m ²
		± 0.003 in CIE1931 x, y for white 0.2 to 100 cd/m ²
		± 0.005 in CIE1931 x, y for white 0.05 to 0.2 cd/m ²
Repeatability (2σ)	0.0005 in CIE1931 x, y for white 100 to 5000 cd/m ²	
	0.001 in CIE1931 x, y for white 0.2 to 100 cd/m ²	
	0.002 in CIE1931 x, y for white 0.05 to 0.2 cd/m ²	
Stray Light	-25 dB max. *4	
Polarized Error	<2%	
Integration Time Range	100us to 5000 ms (fast mode/normal mode)	
Digital Resolution	16 bits	
Flicker		
Measurement Range	5cd/m ² or higher	
Sampling Rate	100k sample/sec (adjustable)	
Contrast	Accuracy	± 1%(30Hz AC/DC 10% sine wave) ± 2%(60Hz AC/DC 10% sine wave)
	Reproducibility	1%(20 to 65 Hz AC/DC 10% sine wave)
JEITA	Accuracy	± 0.5dB(30Hz AC/DC 10% sine wave)
	Reproducibility	0.3dB(30 Hz AC/DC 10% sine wave)