



ProMetric I colorímetro de imagen científico

Código: RVS-PROMETRIC-I

Marca: Radiant Vision Systems

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Detalle

Colorímetro de imagen científico para medición de luminancia y cromaticidad

- Diseñado para fabricación de alto volumen de pantallas, componentes retroiluminados, fuentes de luz y componentes de dispositivos.
- Usa tecnología de filtros tristímulo alineada con funciones CIE para mediciones precisas de color y luminancia.
- Permite medición a nivel de píxel en LCD, OLED, teclados retroiluminados, paneles, luminarias y arreglos LED.

Especificaciones técnicas

Parameter	ProMetric I2	ProMetric I8	ProMetric I16-G	ProMetric I61	ProMetric I151
Primary Applications	Uniformity Testing, R&D, Production Line Testing, Display Testing, Pixel-level Measurement, Color Correction, Advanced Vision	Uniformity Testing, R&D, Production Line Testing, Display Testing, Pixel-level Measurement, Color Correction, Advanced Vision	Uniformity Testing, R&D, Production Line Testing, Display Testing, Pixel-level Measurement, Color Correction, Advanced Vision	Uniformity Testing, R&D, Production Line Testing, Display Testing, Pixel-level Measurement, Color Correction, Advanced Vision	Uniformity Testing, R&D, Production Line Testing, Display Testing, Pixel-level Measurement, Color Correction, Advanced Vision
Sensor Pixels	1600 x 1200	3296 x 2472	5312 x 3032	9568 x 6380	14192 x 10640
Sensor Megapixels	1.9	8.1	16.1	61.0	151.0
Sensor Type	CCD	CCD	CMOS	CMOS	CMOS
System Dynamic Range (single exposure, per pixel)	59 dB (1 x 1 binning)	59 dB (1 x 1 binning)	70 dB (1 x 1 binning)	76 dB (1 x 1 binning)	76 dB (1 x 1 binning)
Luminance (Minimum) *	0.00001 cd/m ² Limit of Detection 0.0001 cd/m ² @ SNR = 60 0.0005 cd/m ² @ SNR = 100	0.00001 cd/m ² Limit of Detection 0.0001 cd/m ² @ SNR = 60 0.0005 cd/m ² @ SNR = 100	0.0005 cd/m ² Limit of Detection 0.002 cd/m ² @ SNR = 60 0.003 cd/m ² @ SNR = 100	0.0005 cd/m ² Limit of Detection 0.0010 cd/m ² @ SNR = 60 0.0015 cd/m ² @ SNR = 100	0.0015 cd/m ²
Luminance (Maximum)	10 10 cd/m ² with optional ND filters	10 10 cd/m ² with optional ND filters	10 10 cd/m ² with optional ND filters	10 10 cd/m ² with optional ND filters	10 10 cd/m ² with optional ND filters
System Accuracy **	Illuminance ± 3%; Luminance (Y) ± 3%; Color Coordinates (x,y) ± 0.003	Illuminance ± 3%; Luminance (Y) ± 3%; Color Coordinates (x,y) ± 0.003	Illuminance ± 3%; Luminance (Y) ± 3%; Color Coordinates (x,y) ± 0.003	Illuminance ± 3%; Luminance (Y) ± 3%; Color Coordinates (x,y) ± 0.003	--
Short-term Repeatability *	Illuminance ± 0.02%; Luminance (Y) ± 0.02%; Color Coordinates (x,y) ± 0.00005	Illuminance ± 0.02%; Luminance (Y) ± 0.02%; Color Coordinates (x,y) ± 0.00005	Illuminance ± 0.03%; Luminance (Y) ± 0.03%; Color Coordinates (x,y) ± 0.00005	Illuminance ± 0.02%; Luminance (Y) ± 0.02%; Color Coordinates (x,y) ± 0.00005	± 0.02% ± 0.02% ± 0.00005
Lens Type	Electronically controlled focus and aperture	Electronically controlled focus and aperture	Electronically controlled focus and aperture	Electronically controlled focus and aperture	AR/VR manual focus

Parameter	ProMetric I2	ProMetric I8	ProMetric I16-G	ProMetric I61	ProMetric I151
Focal Distances Available Field of View (Full Angle, H x V degrees)	24, 35, 50, 100, 200 mm 24 mm 20° x 15° 35 mm 14° x 10° 50 mm 10° x 8° 100 mm macro 5° x 4° 200 mm 3° x 2°	24, 35, 50, 100, 200 mm 24 mm 38° x 30° 35 mm 29° x 22° 50 mm 21° x 16° 100 mm macro 10° x 8° 200 mm 5° x 4°	24, 35, 50, 100 mm 24 mm 33° x 19° 35 mm 24° x 14° 50 mm 17° x 10° 100 mm macro 8° x 5°	50, 100, 200 mm 50 mm 40° x 28° 100 mm macro 20° x 14° 200 mm 11° x 7°	± 60° (120°) circular FOV
Minimum Measurement Time ***	0.3 sec - photopic 1.1 sec - color	0.4 sec - photopic 1.2 sec - color	0.5 sec - photopic 1.4 sec - color	0.6 sec - photopic 1.8 sec - color	1.1 sec - photopic 3.3 sec - color
Spatial Measurement Capabilities	Luminance, Radiance, Illuminance, Irradiance, Luminous Intensity, Radiant Intensity, CIE Chromaticity Coordinates, L*a*b* Color Scale, Correlated Color Temperature (CCT), Dominant Wavelength	Luminance, Radiance, Illuminance, Irradiance, Luminous Intensity, Radiant Intensity, CIE Chromaticity Coordinates, L*a*b* Color Scale, Correlated Color Temperature (CCT), Dominant Wavelength	Luminance, Radiance, Illuminance, Irradiance, Luminous Intensity, Radiant Intensity, CIE Chromaticity Coordinates, L*a*b* Color Scale, Correlated Color Temperature (CCT), Dominant Wavelength	Luminance, Radiance, Illuminance, Irradiance, Luminous Intensity, Radiant Intensity, CIE Chromaticity Coordinates, L*a*b* Color Scale, Correlated Color Temperature (CCT), Dominant Wavelength	Luminance, Radiance, Illuminance, Irradiance, Luminous Intensity, Radiant Intensity, CIE Chromaticity Coordinates, L*a*b* Color Scale, Correlated Color Temperature (CCT), Dominant Wavelength
Units	foot-lambert, cd/m ² , nit, W/sr/m ² , foot- candles, lux, lux-s, W/m ² , W-s/m ² , candela, W/sr. CIE (x, y) and (u', v'), Kelvin (CCT)	foot-lambert, cd/m ² , nit, W/sr/m ² , foot-candles, lux, lux-s, W/m ² , W-s/m ² , candela, W/sr. CIE (x, y) and (u', v'), Kelvin (CCT)	foot-lambert, cd/m ² , nit, W/sr/m ² , foot-candles, lux, lux-s, W/m ² , W-s/m ² , candela, W/sr. CIE (x, y) and (u', v'), Kelvin (CCT)	foot-lambert, cd/m ² , nit, W/sr/m ² , foot-candles, lux, lux-s, W/m ² , W-s/m ² , candela, W/sr. CIE (x, y) and (u', v'), Kelvin (CCT)	foot-lambert, cd/m ² , nit, W/sr/m ² , foot-candles, lux, lux-s, W/m ² , W-s/m ² , candela, W/sr. CIE (x, y) and (u', v'), Kelvin (CCT)
Communication Interface	Ethernet 100/1000, USB 2.0	Ethernet 100/1000, USB 2.0	Ethernet 1000	10 Gigabit Ethernet (10 GigE)	10 Gigabit Ethernet (10 GigE)
Power	100-240 V, 50-60 Hz, 140 Watts	100-240 V, 50-60 Hz, 140 Watts	100-240 V, 50-60 Hz, 60 Watts	100-240 V, 50-60 Hz, 140 Watts	100-240 V, 50-60 Hz 140 Watts
LCD Touch Panel	Resolution: 800 x 600; Diagonal: 125 mm	Resolution: 800 x 600; Diagonal: 125 mm	Resolution: 800 x 600; Diagonal: 125 mm	Resolution: 800 x 600; Diagonal: 125 mm	Resolution: 800 x 600; Diagonal: 125 mm
Dimensions (H x W x D)	238 mm x 181 mm x 230 mm	238 mm x 181 mm x 230 mm	238 mm x 181 mm x 230 mm	238 mm x 181 mm x 230 mm	238 mm x 181 mm x 230 mm
Peso	4.9 kg	4.9 kg	4.6 kg	4.6 kg	4.6 kg
Temperatura de operación	0 - 30° C	0 - 30° C	5 - 35° C	5 - 35° C	5 - 35° C
Operating Humidity	20 - 70% non-condensing	20 - 70% non-condensing	20 - 70% non-condensing	20 - 70% non-condensing	20 - 70% non-condensing

Aplicaciones

Seleccione esta familia para medición de luminancia, cromaticidad, uniformidad y defectos en pantallas, componentes retroiluminados y fuentes de luz. Valide resolución, campo de visión, velocidad de medición y software requerido.

Cómo validar si sirve

Confirme muestra, campo de visión, distancia de trabajo, resolución, velocidad de medición, software requerido y condiciones de producción o laboratorio.

Recomendación

Solicite esta solución cuando esos criterios coincidan con la aplicación real y se requiera medición o inspección óptica con trazabilidad técnica.

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