

Preview

LumiCam 2400

Imaging colorimeter optimized for display
elements in vehicles



We bring quality to light.

\\ Outstanding measurement accuracy for luminance and color distributions

As an imaging measurement system, the LumiCam 2400 captures the luminance and color distributions of screens or multifunction displays within seconds. It provides 5 megapixel images which present the spatially resolved measured values coded for luminance and chromaticity. The LumiCam 2400 models are perfect for versatile Automotive test applications, e.g. measurement of luminance and color distributions of displays and control elements or uniformity analysis of flat panel display screens in car interiors.

Instrument Systems offers the LumiCam 2400 in three variants:

The **LumiCam 2400 Mono** is a compact luminance camera for reliable and accurate luminance measurements.

The **LumiCam 2400 Color** adds three filters for chromaticity measurements and is perfect for broadband light sources. To achieve optimal measurement results for LED based test objects, the **LumiCam 2400 Advanced** features a total of six color filters and a patented matrix optimization algorithm. The 5 megapixel resolution of all models allows for convenient imaging and analysis of whole instrument clusters or small details with high resolution.

All LumiCam models come with a powerful software that calculates all relevant quantities as, e.g., the luminance L_v , the color coordinates x and y as well as color temperature, color uniformity or dominant wavelength. Versatile analytical tools, such as spotmeter, polygon, line or 3D box, permit comprehensive evaluation of the measured data. The LumiCam software offers the possibility of false-color presentation for particularly impressive visualization of the values obtained.

\\ Technical data

LumiCam 2400 family	
Measurement quantities	
Photometric	Luminance (cd/m ²), luminous intensity (cd), contrast
Colorimetric (Models Color/Advanced)	Color coordinates (x, y), color coordinates (u', v'), tristimulus values (X, Y, Z), dominant wavelength (nm), color saturation, correlated color temperature CCT (K)
Camera specifications	
Effective resolution (h x v)	~ 2430 x 2030 pixels (5 megapixels)
Pixel size	3.45 µm x 3.45 µm
AD converter	12 bit
Sensor	Sony CMOS IMX264
Size sensor	2/3" (11 mm diagonal)
General specifications	
Interface	Gigabit Ethernet, USB
Operating system	Windows 7/10 (32/64bit)
Dimensions (l x w x h)	128 mm x 100 mm x 81 mm (Mono); 276 mm x 120 mm x 175 mm (Color/Advanced)
Weight	~ 1 kg - 3 kg
Power supply	12 V
Operating temperature range	15 – 35 °C