

CORRECTION FACTOR FOR COLOR RESPONSE CALIBRATION

ABSTRACT

The color response of camera devices may be calibrated, using a correction factor that can account for differences in the spectra of light emitted by different light sources used during calibration. The correction factor may be calculated based on the expected spectral sensitivities of the camera devices, the power spectrum of an actual light source, and the power spectrum of a canonical light source. The correction factor is then applied to adjust a measured color response of a given camera device, so that the adjusted color response is effectively the response of the given camera device if it had been illuminated by the canonical light source. In this manner, any measured color response differences, which may be due to differences between the actual light source used and the canonical light source, can be effectively reduced (if not essentially eliminated.) Other embodiments are also described and claimed.

Fig. 2