

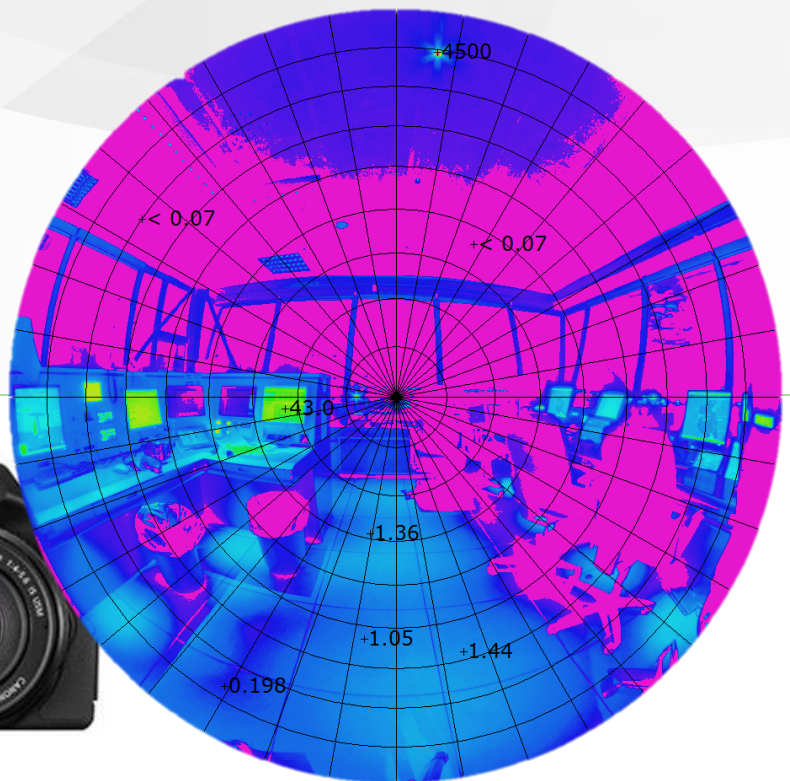


PHOTOLUX

3.2

QUALITY & COMFORT

A MOBILE SYSTEM
FOR LUMINANCE
&
VISUAL COMFORT DIAGNOSIS



TECHNICAL SHEET

ELECTRONICS

- SENSOR: CMOS Canon APS-C Size 22,3 x 14,9 mm with 5566 (H) x 3706 (V)
- LENS TYPE: Sigma 4.5mm F2.8 EX DC CIRCULAR FISHEYE HSM
- DATA TRANSMISSION: USB 2.0 and SD, SDHC, SDXC Memory card



SOFTWARE FUNCTIONALITIES

- Produces luminance map from digital pictures
- Identify the camera serial number, and uses the corresponding calibration curves
- Applies the calibration curves to the luminosity L^* (validity range: [20, 85]) of each pixel and compute the corresponding luminance
- Uses as many pictures of a same scene as needed to compute all the luminances of a dynamic range luminance mapping (HDR)
- Produces a false color map (Based on a logarithmic luminance scale)
- Covers a large luminance range: 0.1 cd/m² to 500 000 cd/m²

ADD-ONS

PHOTOLUX BATCH:

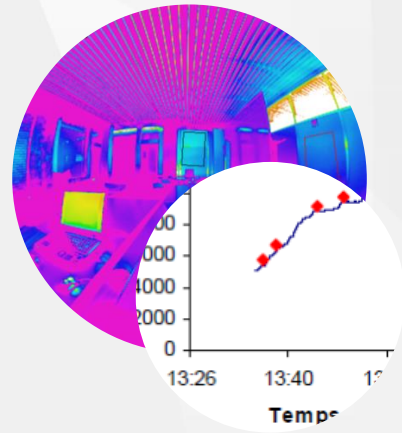
In a batch mode: different photo series are automatically identified and calculated without opening the software

PHOTOLUX SHOOTER:

Allows to automate the exposure settings and the recording of the series of photos with different aperture settings and with different time steps up to x days

MAIN FEATURES

- PRODUCE THE LUMINANCE MAP
 - Relative scale
 - Absolute scale
 - Correction factor
- EDIT THE LUMINANCE MAP
 - Pixel mode
 - Luminance meter mode
 - Add pointer mode
 - Threshold zones
- ANALYSIS OF THE LUMINANCE MAP
 - Zone characteristics: Select a zone, name it, apply a correction factor to this zone
 - Display Functions
 - Zoom in or out, drag or zoom all
 - Display a grid to identify the angular coordinates of a given point in the map
 - Replace the false color display by one of the pictures used to create the map
 - Statistics tab (whole map or specific zone): Find the minimum, the average and the maximum luminance values, standard deviation and the illuminance resulting from these luminances
 - Compute visual comfort Indices: UGR; Visual Comfort Probability; Daylight glare index

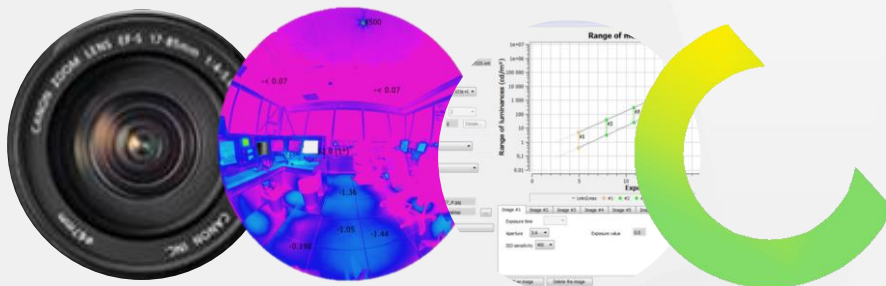


OUTPUT (Export function)

- IMAGE: File extension .bmp
- LIGHT PHOTOMETRIC DATA: Luminance-generic/brut (tab); Luminance-Radiance; Intensity distribution file (.ies); Genelux (.lum); Radiance (.rad)

TECHNICAL CLARIFICATION

- Can not be used for measuring colored light sources (LED)
- Operating system: Windows Vista, 7, 8, (10 in progress)



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