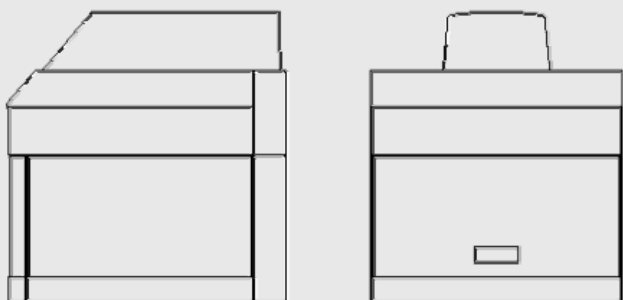


# ICAM Viewer, 1.2 M Pixels

## Dimensions and weight

Depth: 712 mm  
 Width: 648 mm  
 Height: 770 mm



Weight: 16 kg

## CCD

Number of pixels: 1280 × 960  
 Dynamic range <sup>1)</sup>: 1350:1  
 Exposure time: 35 μs to 2 s

## Lens system

F# range: 1.9 – 22

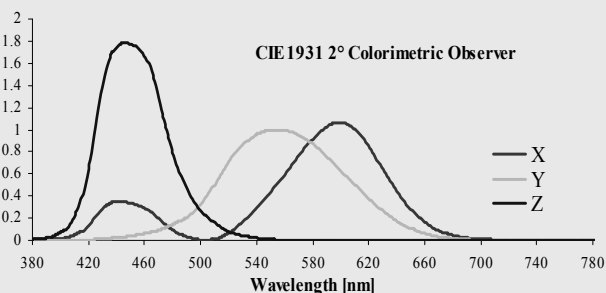
## Measurement area

Dimension: 300 mm × 225 mm  
 Resolution: 0.24 mm × 0.24 mm

## Illumination

Colour: 6500 K or 5000 K  
 Level: 5000 lx to 1250 lx  
 Uniformity:  
 Min/Mid: 0.99  
 Min/Max: 0.98

Ripple:  
 @ 50 Hz <sup>5)</sup>: < 0.01 %  
 @ 140 kHz <sup>5)</sup>: < 2 %



## System

Wavelength range: 400 nm to 680 nm  
 Response: Tristimulus values according to CIE 1931 2° photometric and colorimetric observers  
 f, errors <sup>6)</sup>: < 2% of system Y and Z responses  
 < 3% of system X response  
 Output: CIE Tristimulus Values X, Y and Z per pixel.  
 Measurement time: < 2 sec. (Typically)

## Performance

Trueness <sup>7)</sup>:  
 Luminance <sup>2)</sup>:  $\Delta L/L < 1.5\%$   
 Chromaticity <sup>2)</sup>:  $\Delta Cab < 1.0$   
 Chromatic x <sup>3)</sup>:  $\Delta x < 0.0020$   
 Chromatic y <sup>3)</sup>:  $\Delta y < 0.0015$   
 Repeatability <sup>4)</sup>:  
 Luminance <sup>4)</sup>:  $\pm 0.035\%$   
 Chromatic xy <sup>4)</sup>:  $\pm 0.0002 (\pm 0.025\%)$

## Interface

Computer: Recommended PC, better than 1 GHz, 512 MB.  
 Digital: IEEE 1394; DCAM 1.3 FireWire.  
 Control: USB 1.0 or RS232.  
 Power: FireWire or external 12 V supply.

## Electrical

EMC: EN 61 000-6-1:2002  
 EN 61 000-6-3:2002  
 EN 61 326-1 :2003

## Environmental

Temperature: 10°C to 40°C  
 Humidity: 15 – 80% relative

### Notes:

- 1) Based on full well capacity and readout noise.
- 2) Probability of 95%. Found as average of 12 different coloured matt ceramic tiles illuminated by Illuminant A. Averaged over 10×10 pixels.
- 3) Found as average of 12 different coloured matt ceramic tiles illuminated by Illuminant D65. Averaged over 10×10 pixels.
- 4) Probability of 95%. Found by 25 measurements during 10 minutes of a white tile illuminated by D65. Averaged over 10×10 pixels.
- 5) Peak to peak illuminance level as percentage of level.
- 6) According to CIE, Pub. No 53, 1982.
- \*) See ICAM Technical note "I101 Definitions"

### DISCLAIMER

The information contained in this document is subject to change without notice.

