



Luminance Colorimeter (XYL-VI)

Brochure

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The XYL-VI Luminance Colorimeter

The XYL-VI Luminance Colorimeter changes the traditional structure thoroughly, employs the digital $X(\lambda), Y(\lambda), Z(\lambda)$ sensors to replace the traditional analogue sensors, employs the digital signal measurement system to replace the traditional analogue measurement system. The instrument has no analogue unit, thus it is very simple to overcome the zero drift that is impossible to be avoided in current colorimeter. The digital sensor has large dynamic range. Moreover, it possesses strong anti-interference ability and high accuracy. The scheme of the Luminance Colorimeter is shown as Fig.1.

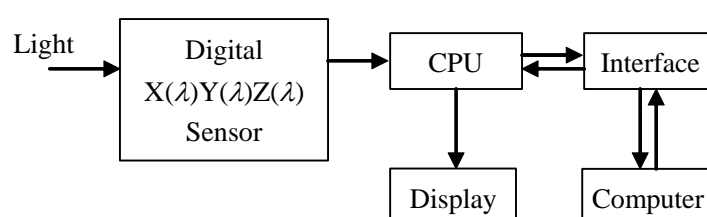


Fig.1 Scheme of the Luminance Colorimeter

The XYL-VI Luminance Colorimeter contains internal RS232 computer interface, the calibration is done by software. It is suitable for monitoring and remote applications. The XYL-VI All Digital Color meter can be calibrated by XYL-VI Luminance Colorimeter software, to sample the data and print out the results. It can also be corrected by other standard light sources to obtain very high measuring accuracy of x, y color coordinates and color temperature. It is a real-time measuring system and run under Windows98/NT/XP.

Specification:

- Luminance Y:
 - Relative spectral sensitivity of digital $V(\lambda)$ sensor: $f1 < \pm 5.5\%$
 - Dynamic range: 10~1,000,000 cd/m². Accuracy: $< \pm 5\%$
 - Sensitivity: 0.01cd/m². Repeatability: 0.01cd/m²
- Measuring angle: 1 degree. Measuring distance: 0.7m to infinity
- Color Coordinates $x, y, u, v(u', v')$: (Luminance more than 10cd/m²)
 - Accuracy(x, y): ± 0.002 (CIE Standard A-source, 100cd/m²)
 - Repeatability(x, y): ± 0.0005 (CIE Standard A-source)
- Color Temperature T_c: (Luminance more than 10cd/m²)
 - Dynamic range: 1350--25000K Sensitivity: 1K
 - Accuracy: $\pm 20K$ (CIE Standard A-source, 100cd/m²)
- Temperature effect: -0.1%. No range-changing error, $f7=0$
- Refreshing frequency: 1n/s(no less than 10 cd/m²), 1n/3s(less than 10 cd/m²)
- 128×64 LCD display. Data hold function
- RS232 computer interface and software
- Power Supply: 9V Battery, 6V DC adapter

- Size: 270L×95W×225H(mm) (with handgrip).

The picture of the XYL-VI Luminance Colorimeter is shown as Fig.2.



Fig.2

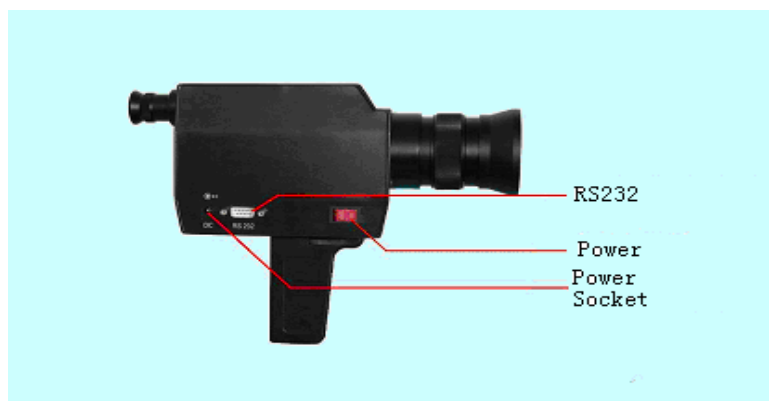
Calibration:

1. Calibration is done by software with computer.
2. Usually, the instrument should be calibrated every 2 years.

Operation:



(a)



(b)

1. Page Up: Turn page forward.
2. Page Down: Turn page backward.
3. Cancel: Cancel.
4. OK: OK.
5. Hold: Hold the measured value.
6. Power: Switch for power supply.
7. RS232: The computer interface, used in computer calibration or sampling.
8. DC: External 6V DC adapter.

More Pictures:



