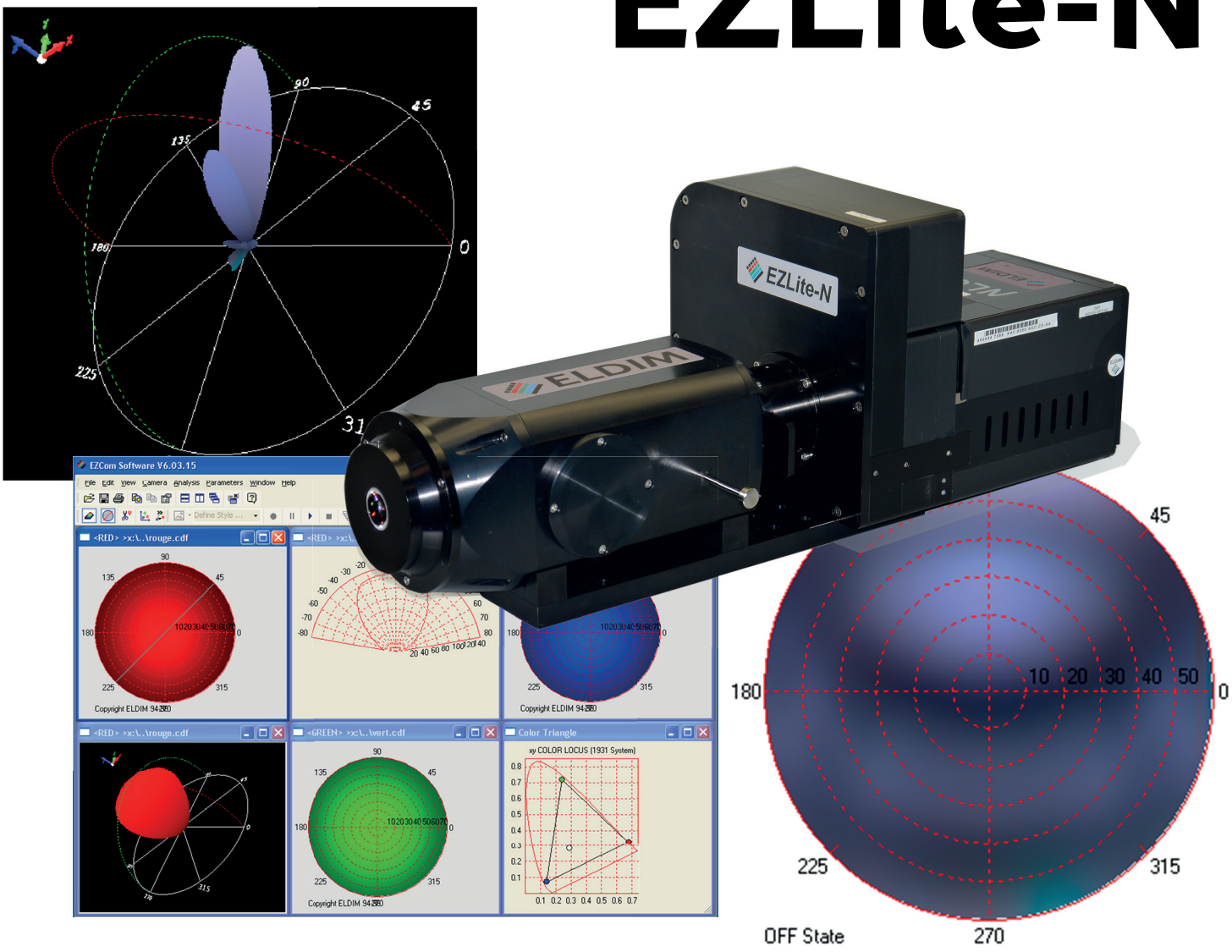
EZLite-N



Features

- Color measurements in less than 30s
- High color and luminance accuracy
- Viewing angle aperture : +/-60°
- Angular resolution : 0.7°
- 8Mpix Cooled CCD Sensor
- Non-contact measurements

Applications

- Viewing angle analysis in Q&A
- VESA/ICDM-IDMS standards compliance tests
- Goniometric types measurements

EZLite-N allows getting reliable viewing angle luminance and color data. It provides fast and accurate measurements of the full viewing cone with high angular resolution. **EZLite-N** measures a +/-60° viewing angle luminance map in less than 10s.

ELDIM

OPTICAL METROLOGY FOR DISPLAYS

EZLite-N

Viewing Cone Series

Specifications		EZLite-N
Field coverage	*Incident angle* *Azimuth angle*	0-60° 0-360°
Measuring area	*Maximum diameter* *Minimum diameter*	2mm 166µm
Optimum distance	*Ensure light coming from same spot at any angle*	4.5mm
Sensor	*Peltier cooled CCD* *Resolution* *A/D converter*	Yes 8M 14 bits
Neutral densities	*For luminance adjustment* *Selection mode*	0.5, 1, 2, 3 Automated
Chromaticity	*Color Filters* *Additional Filters*	5 (*1) Any type
Measurement Modes	*Luminance* *Chromaticity* *Reflective (option)*	Yes Yes Full diffused or collimated beam illumination
Luminance Range	*Minimum (cd/m2)* *Maximum (cd/m2) - on option*	0.001 more than 800 000 cd/m²(*2)
Accuracy	*Angular position* *Angular resolution* *Luminance* *Chromaticity (x,y) RMS*	±0.5° ±0.75° ±3% (*3) 0.002 (*4)
Repeatability	*Luminance* *Chromaticity (x,y) RMS*	±0.05% (*5) 0.0001 (*5)
Measurement time	*Luminance* *Chromaticity*	< 10s (*6) <30s (*6)
Use condition	*EZLite-N* *EZLite-NG*	0°C to 30°C non condensing -40°C to +85°C non condensing

(*1) All the systems use 5 color filters matched on the CCD response (2 for X, 2 for Y and 1 for Z)

(*2) Maximum luminance is given for the maximum spot diameter

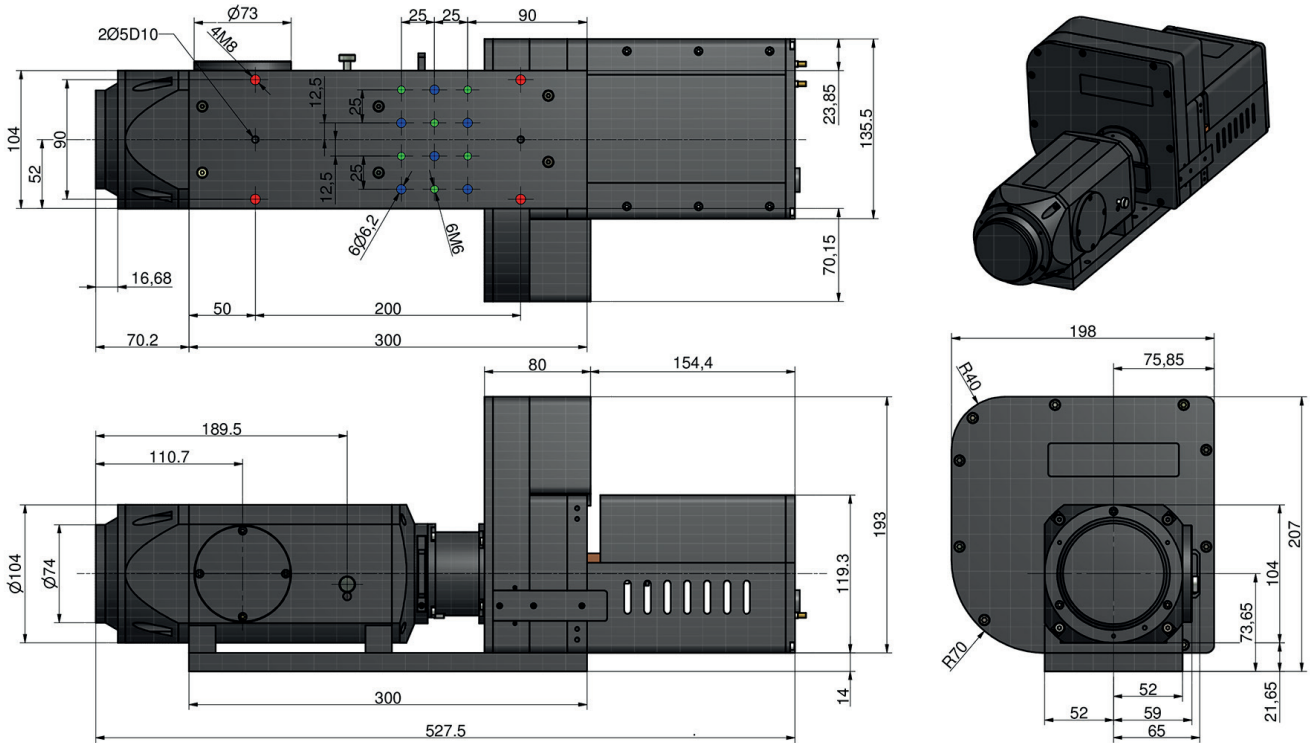
(*3) The accuracy is guarantied for any type of color stimuli in contrast to competitors that generally guaranty only reference white. The luminance accuracy is guarantied for a luminance higher than 50cd/m2.

(*4) For A type illuminant

(*5) For a luminance higher than 50Cd/m² based on 100pixels

(*6) Measurement times are highly dependent on the target and on the conditions. Given times are for a source with luminance level higher than 50Cd/m² and already determined exposition times for all the filters.

EZLite-N Outer dimension (unit mm)



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