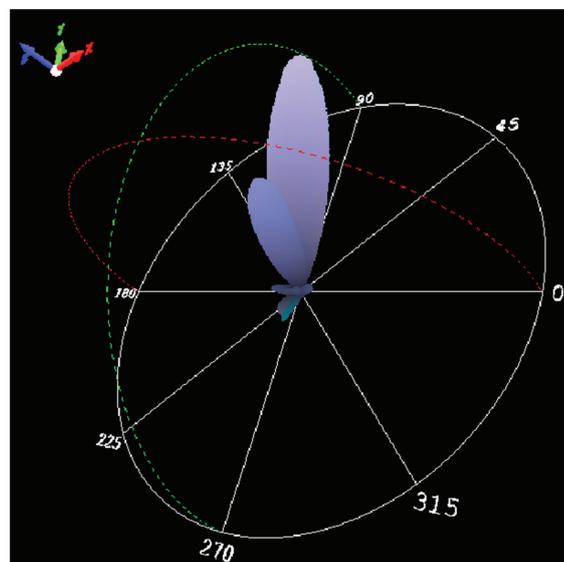
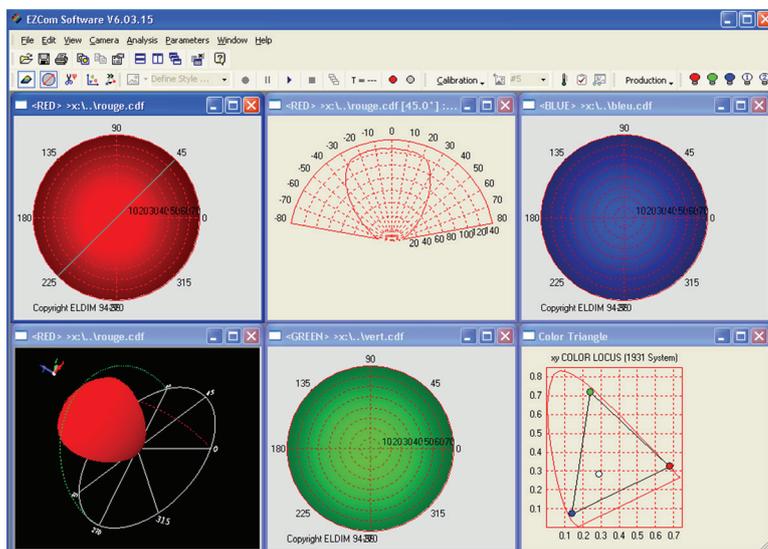
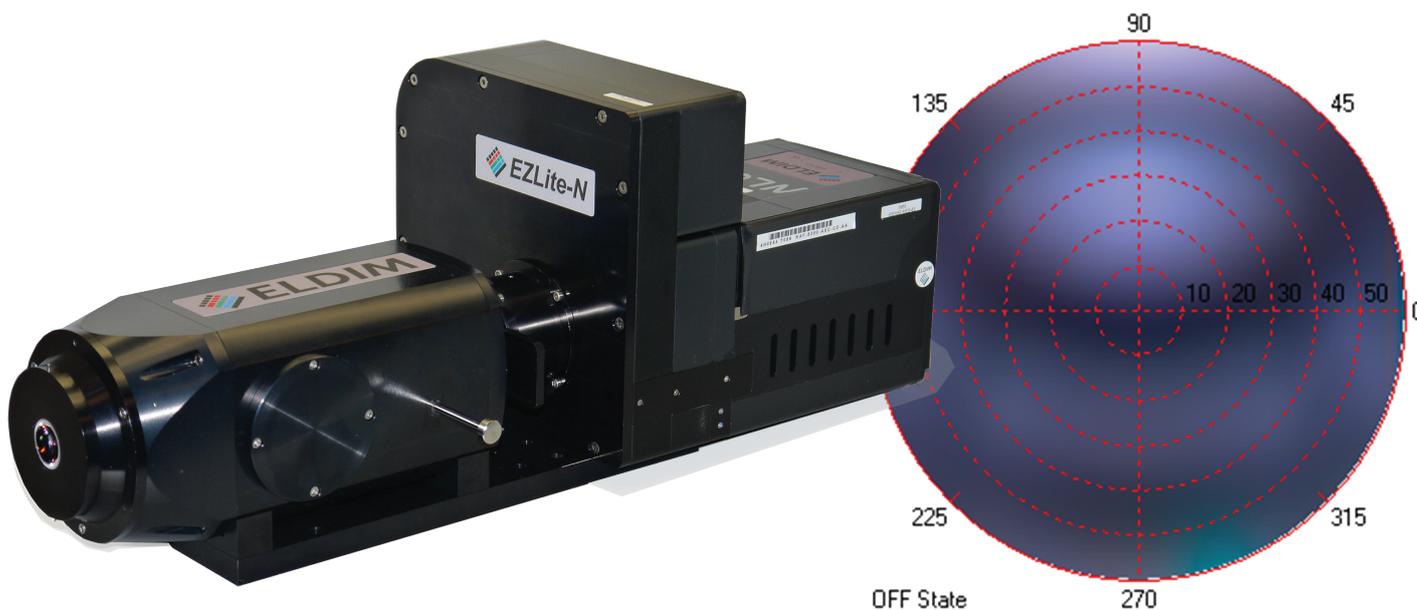


**ELDIM** has been manufacturing viewing angle instruments based on Fourier optics for more than 20 years. **ELDIM** proposes different viewing angle instruments with variable characteristics (high angular aperture up to 88°, high angular resolution down to 0.03° and big spot size up to 6mm) and different measurement capacities (luminance, color, radiance versus wavelength and polarisation state).

The cost effective EZLite-N system is the simplest and most versatile instrument for standard viewing angle.



### EZLite-N applications

- Viewing angle analysis in Q&A
- VESA / ICDM-IDMS standards compliance tests
- Optical measurements in Environment chambers.
- Goniometer types measurements

### EZLite-N benefits

- Low Cost
- Large viewing cone / Fast measurements
- High color & luminance accuracy
- Use temperature range -40 +85°C (option)
- Ideal for the displays quality control



Specifications		EZLite-N
Field coverage	Incident angle	0-60°
	Azimuth angle	0-360°
Measuring area	Maximum diameter	2mm
	Minimum diameter	83µm
Sensor	Peltier cooled CCD	Yes
	Resolution	8M
	A/D converter	14 bits
Chromaticity	Color Filters	5 <sup>(*)1</sup>
	Additional Filters	Any type
Measurement Modes	Luminance	Yes
	Chromaticity	Yes
	Reflective (option)	Full diffused or collimated beam illumination
Luminance Range	Minimum (cd/m <sup>2</sup> )	0.001
	Maximum (cd/m <sup>2</sup> ) - on option	more than 800 000 cd/m <sup>2</sup> <sup>(*)2</sup>
Accuracy	Angular position	±0.5°
	Angular resolution	±0.75°
	Luminance	±3% <sup>(*)3</sup>
	Chromaticity (x,y) RMS	0.002 <sup>(*)4</sup>
Repeatability	Luminance	±0.05% <sup>(*)5</sup>
	Chromaticity (x,y) RMS	0.0001 <sup>(*)5</sup>
Measurement time	Luminance	< 10s <sup>(*)6</sup>
	Chromaticity	<30s <sup>(*)6</sup>

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

<sup>(\*)2</sup> Maximum luminance is given for the maximum spot diameter

<sup>(\*)3</sup> The accuracy is guaranteed for any type of color stimuli in contrast to competitors that generally guaranty only reference white. The luminance accuracy is guaranteed for a luminance higher than 50cd/m<sup>2</sup>.

<sup>(\*)4</sup> For A type illuminant

<sup>(\*)5</sup> For a luminance higher than 50Cd/m<sup>2</sup> based on 100pixels

<sup>(\*)6</sup> Measurement times are highly dependent on the target and on the conditions. Given times are for a source with luminance level higher than 50Cd/m<sup>2</sup> and already determined exposition times for all the filters.

### Outer dimension (unit mm)

