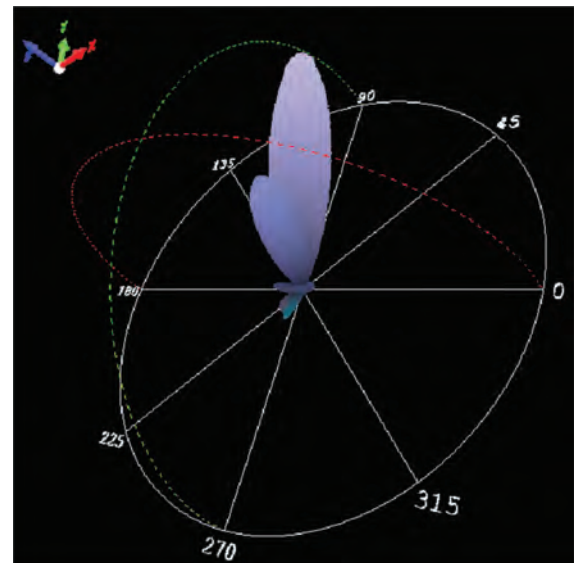
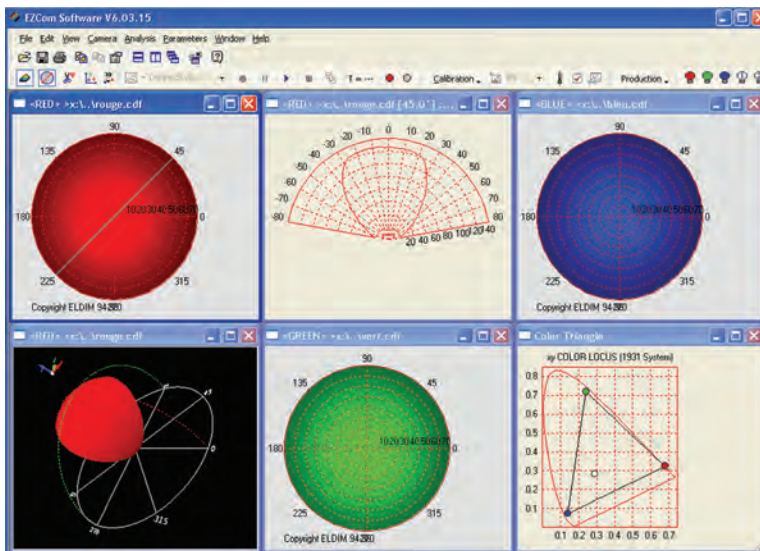
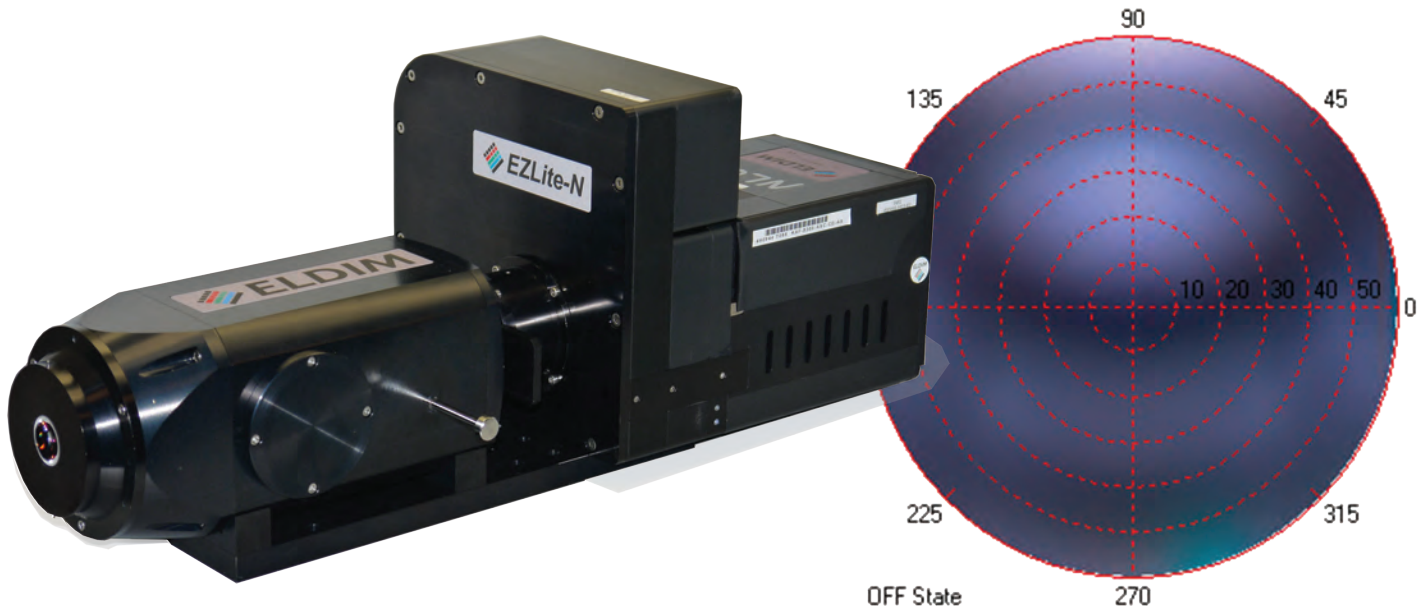


ELDIM has been manufacturing viewing angle instruments based on Fourier optics for more than 20 years. **ELDIM** proposes different viewing angle instruments with variable characteristics (high angular aperture up to 88°, high angular resolution down to 0.03° and big spot size up to 6mm) and different 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 Azimuth angle	0-60° 0-360°
Measuring area	Maximum diameter Minimum diameter	2mm 83µm
Sensor	Peltier cooled CCD Resolution A/D converter	Yes 8M 14 bits
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/m ²) Maximum (cd/m ²) - on option	0.001 more than 800 000 cd/m ² ^{(*)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}

^{(*)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 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/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.

Outer dimension (unit mm)

