

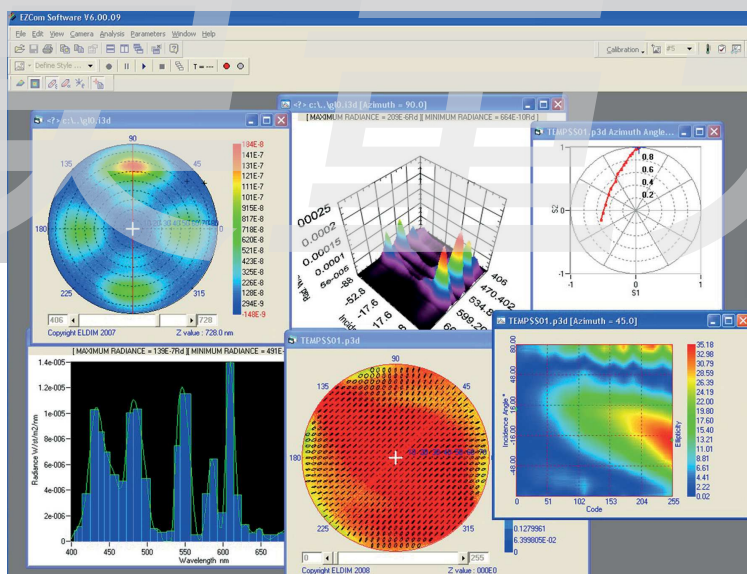
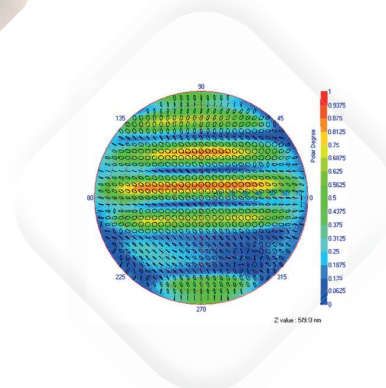
VIEWING ANGLE SERIES

# EZCONTRAST-MS



## OVERVIEW

The **EZContrast-MS** series gives spectral data within a large viewing cone, and is very fast. A full spectral map within a  $\pm 88^\circ$  viewing angle cone is made in less than 5mn. With its different automated wheels allow selection of the light beam using 31 band pass filters regularly distributed in the visible range, the **EZContrast-MS** is the solution for full angular and radiance analysis.

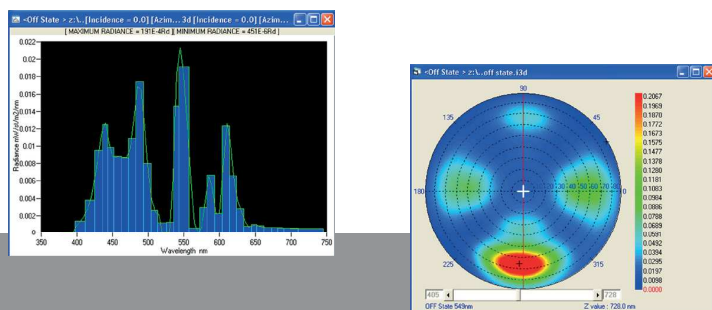


## FEATURES

- Non-contact measurement
- Radiance, Luminance, Color data
- Fast Spectral measurements
- High Accuracy and reliability
- Cooled sensor
- Resolution : 0.08°/CCD pixel

## APPLICATIONS

- Physico-realistic simulation
- All kind of displays performances characterization in details
- Grey levels analysis



MORE DETAILS

# TECHNICAL FEATURES

Specifications		EZContrastMS88	EZContrastMS80
Viewing angle	Incidence angle Azimuth angle	±88° 0-360°	±80° 0-360°
Measuring area	Maximum diameter Other diameter (optional)	2mm 1mm, 500µm or 300µm	
Accuracy	Wavelength resolution (nm)	10	10
	Wavelength accuracy (nm)	1	1
	Stray light (%)	<0.1	<0.1
	Radiance (W/Str/m²/nm)	±3%	±3%
	Chromaticity	0.002 (for any stimulus)	0.002 (for any stimulus)
Performances	Ellipticity & polarization direction	±2° up to 60°	±2° up to 50°
	Polarization degree	±2% up to 60°	±2% up to 50°
Density	Angular resolution	0.09°/CCD pixel	0.08°/CCD pixel(*)
	Angular optical resolution	0.25°	0.25°(*)
Density	Optional	0.5, 1.0 or 2.0	
Polarization	Optional	3 Polarizers (0, 45, 90°) and 2 wave-plates	
Optimum distance	Ensure light coming from same spot at any angle	1mm	3.7mm
Spectral specs	Standard	31 band pass filters on the visible range 400-700nm	
	Optional	2 additional band pass filter (between 700 and 900nm)	
	Spectral data extraction	Interpolation with step between 1 and 5nm	
Measurement time	Radiance with full resolution	<6mn	
	Radiance with half resolution	<3mn	
	Polarization with full resolution	<15mn	
Short-term repeatability	Radiance	±0.5%	
	Luminance	±0.02%	
	Chromaticity	0.001	
Using condition	Temperature range Humidity range	0 to 30°C 0-85% non condensing	

Specifications can be change without notice

(\*) The system's resolution must be considered according to the effective optical resolution.

## SIZES & PLAN DIMENSIONS

EZCONTRASTMS OUTER DIMENSION (UNIT MM)

