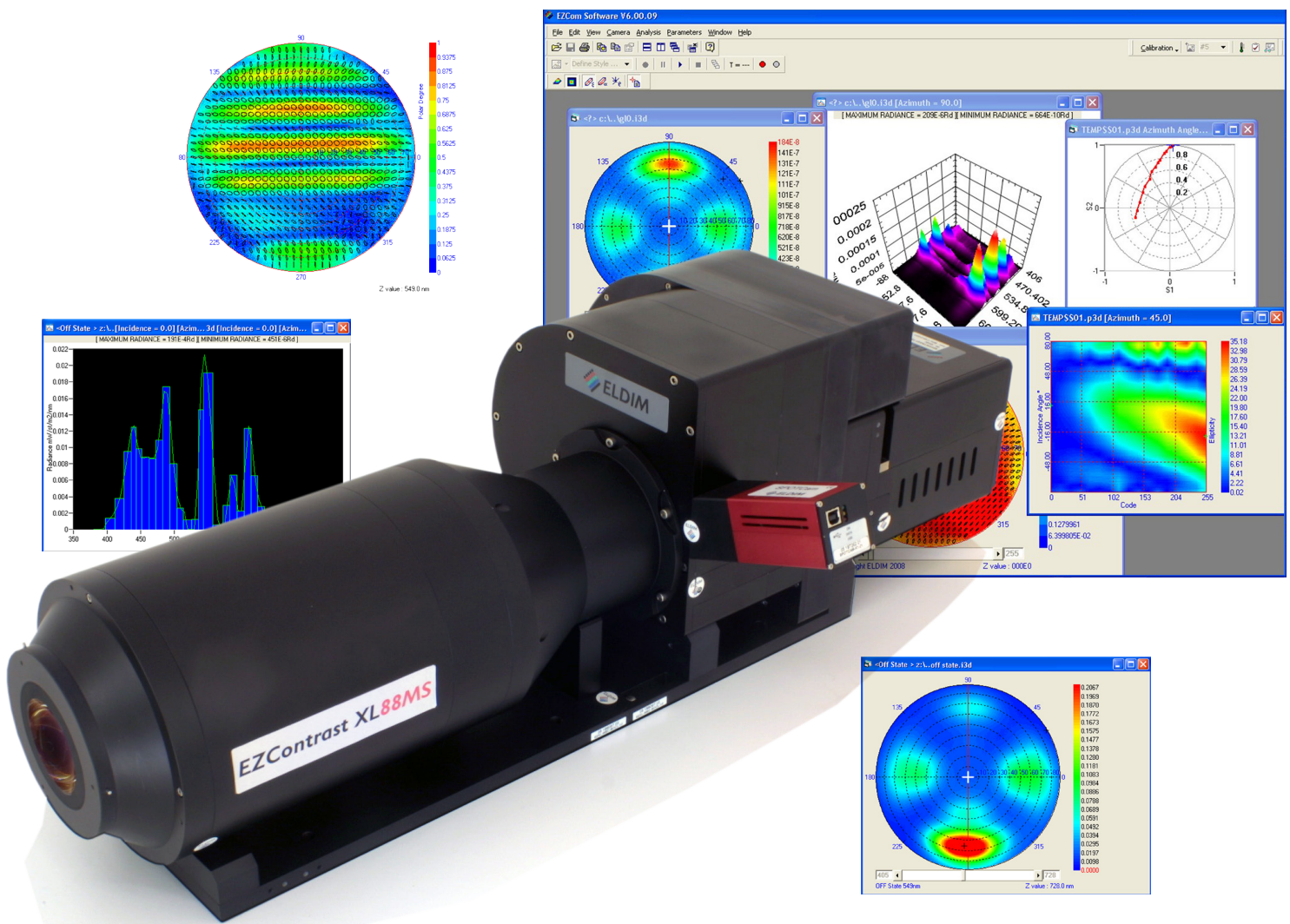


# EZContrast-MS



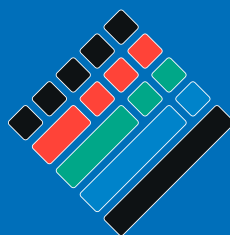
## FEATURES

- Non-contact measurement
- Radiance, Luminance, Color data
- Fast Spectral measurements
- High Accuracy and reliability
- Cooled CCD sensor

## APPLICATIONS

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

The EZContrast Ms series gives spectral data within a large viewing cone, and is very fast. A full spectral map within a +/- 88° 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.



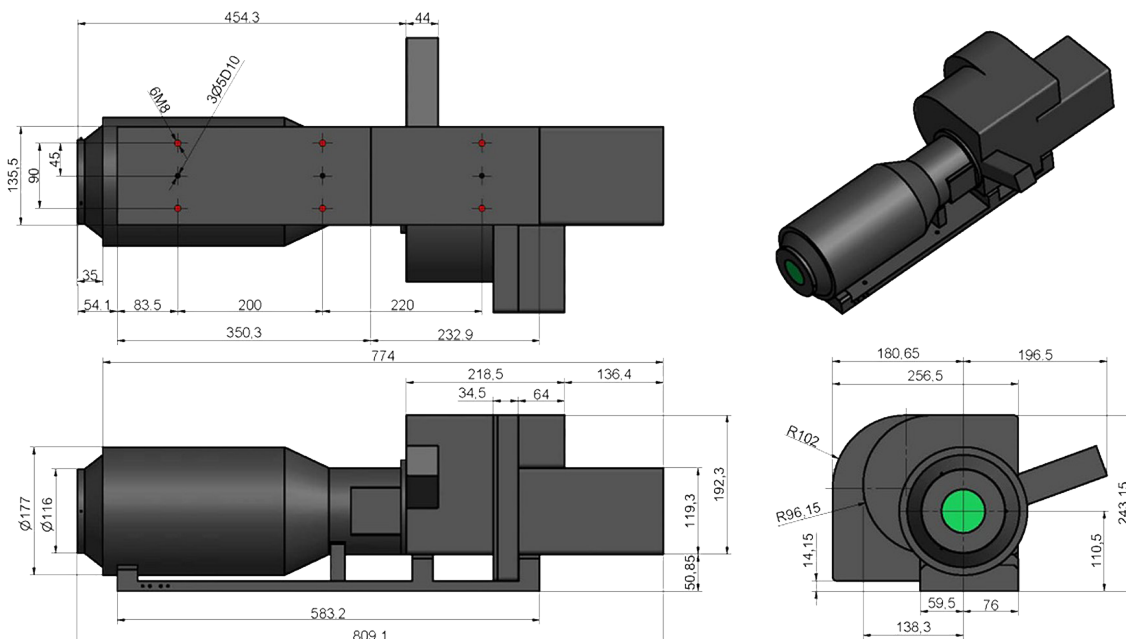
**ELDIM**

**OPTICAL METROLOGY FOR DISPLAYS**

Major specifications of EZContrastMS

Specifications		EZContrastMS88	EZContrastMS80
Field	Incidence angle Azimuth angle	±88° 0-360°	±80° 0-360°
Measuring area	Maximum diameter Other diameter (optional)	2mm 1mm, 500µm or 300µm (*)	
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 Optional Spectral data extraction	31 band pass filters on the visible range 400-700nm 2 additional band pass filter (between 700 and 900nm) Interpolation with step between 1 and 5nm	
Measurement time	Radiance with full resolution Radiance with half resolution Polarization with full resolution	<6mn (*) <3mn (*) <15mn (*)	
Accuracy	Wavelength resolution (nm) Wavelength accuracy (nm) Stray light (%) Angular resolution (deg) Radiance (W/Str/m²/nm) Chromaticity Ellipticity & polarization direction Polarization degree	10 1 (*) <0.1 (*) 0.25 ±3% 0.002 (for any stimulus) ±2° up to 60° ±2% up to 60°	10 1 (*) <0.1 (*) 0.25 ±3% 0.002 (for any stimulus) ±2° up to 50° ±2% up to 50°
Repeatability	Radiance Luminance Chromaticity	±0.5% (*) ±0.5% (*) 0.001(*)	
Using condition	Temperature range Humidity range	0 to 30°C 0-85% non condensing	
Interface		USB 2.0	
Power		AC adapter (100-240V 50/60Hz)	
Current consumption		70W	
Weight		65Kg	55Kg

Outer dimension (unit mm)



(\*) Driven by software  
 (\*) Measurement times are highly dependent on the target and on the conditions. Given times are for a source with a radiance level higher than 10mW/Sr/m2/nm at all the wavelength and already determined exposition times for all the filters .  
 (\*) Band pass filters with a FWHM of about 10nm: the reported accuracy is on the band pass central wavelength position.  
 (\*) For one filter with regards to the maximum of radiance observed on all the other filters.

Specifications can be change without notice  
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