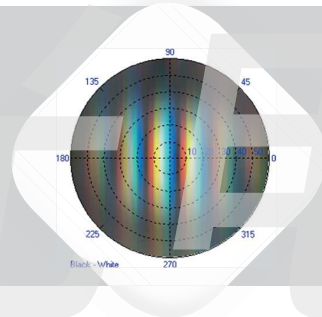
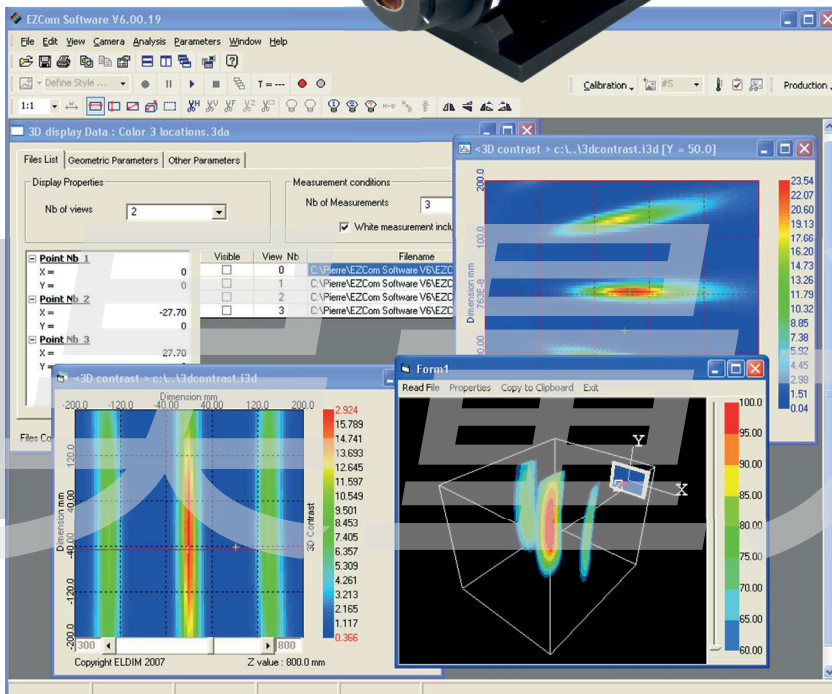


VIEWING ANGLE SERIES  
**VCMaster 3D**



## OVERVIEW

**VCMaster 3D** is the world best solution to characterize accurately autostereoscopic 3D display. For 3D display the priority is made on the angular resolution using dedicated optical design and large size sensor. **VCMaster 3D** comes with a complete software solution for measurement and 3D analysis.

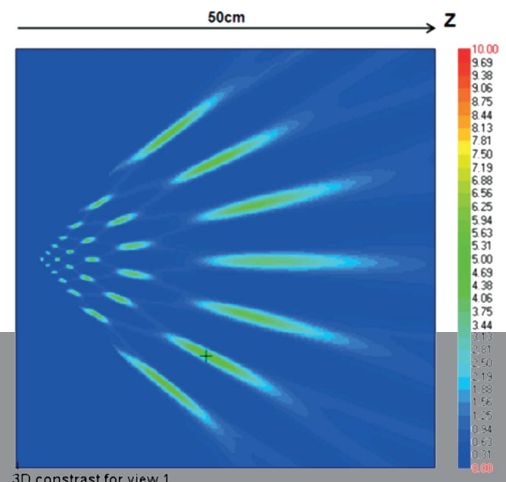


## APPLICATIONS

- Autostereoscopic 3D display analysis
- Any display analysis
- Polarization analysis as add-on
- Viewing angle analysis for QC or R&D

## FEATURES

- Viewing angle measurement
- Viewing angle aperture +/- 50°
- 3D display measurement
- Resolution: 0.03°/CCD pixel
- Optical resolution: <0.04°
- Computation of 3D display properties in the observer space, 3D Contrast crosstalk



3D contrast for view 1

MORE DETAILS

# TECHNICAL FEATURES

| Specifications           |  | VCMaster3D  |
|--------------------------|--|---|
| Viewing angle            | <i>Incident angle</i><br><i>Azimuth angle</i>                        | ±50°<br>0-360°  |
| Measuring area           | <i>Maximum diameter</i><br><i>Other diameter (optional)</i>          | 4mm<br>2mm, 1mm, 500µm  |
| Optimum distance         | <i>Ensure light coming from same spot at any angle</i>               | 15mm  |
| Accuracy                 | <i>Luminance</i><br><i>Chromaticity (x,y) RMS</i>                    | ±3% for any color stimulus<br>±0.003 for A type illuminant<br>±0.005 for any color stimulus |
| Performances             | <i>Angular resolution pixel</i><br><i>Angular optical resolution</i> | 0.03°/CCD(*)<br><0.04°(*)   |
| Color                    | <i>Standard</i><br><i>Optional</i>                                   | 5 filters adjusted to the CCD response<br>8 filters adjusted to the CCD response            |
| Sensor configuration     | <i>Peltier cooled grade 1</i>  | 4000 x 4000 or 16M pixels   |
| Luminance range          | <i>Standard</i><br><i>Optional</i>                                   | 0.001 to 2000Cd/m²<br>up to 500 000Cd/m² with ND filters                                    |
| Short-term repeatability | <i>Luminance</i>   | ±0.02%  |
| Measurement time         | <i>Luminance</i><br><i>Color</i>                                     | <10s<br><25s  |
| Using condition          | <i>Temperature range</i><br><i>Humidity range</i>                    | 0 to 30°C<br>0-85% non condensing   |

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

Specifications can be change without notice

## SIZES & PLAN DIMENSIONS

VCMaster 3D DIMENSION (UNIT MM)

