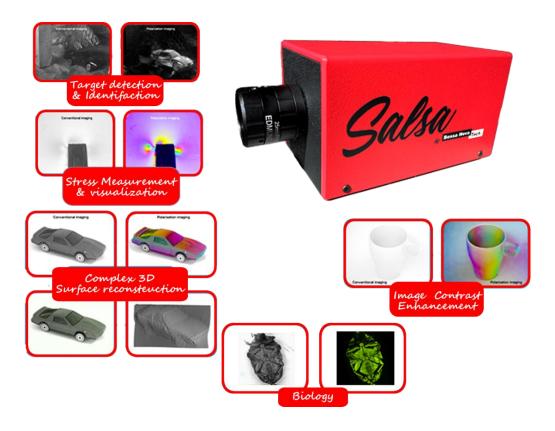
**VISION** 



## **Full Stokes Polarization camera**



# What measurements can be performed?

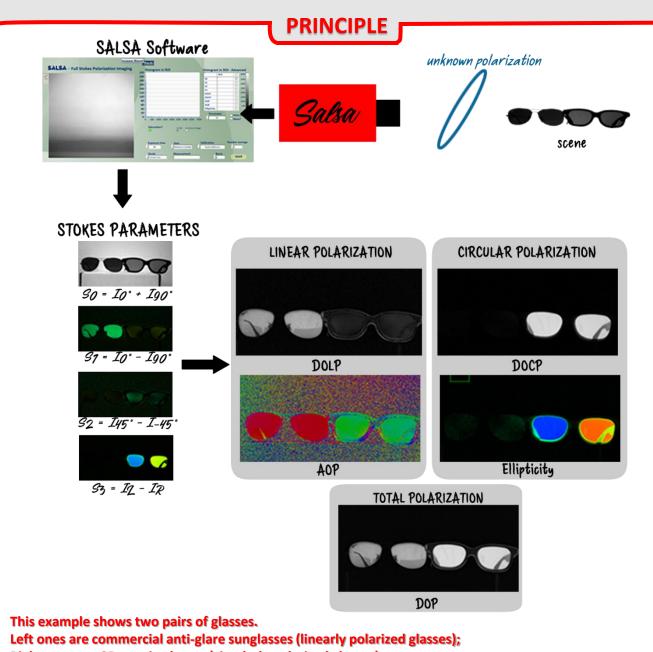
- ➤ Live full Stokes polarization imaging in the visible in passive or active configuration
- Live computation of any derived polarization parameter: DOP, DOLP, DOCP, AOP, Ellipticity.
- Passive and Active polarization imaging

## What does it enable?

- Retardance mapping / Stress measurement
- Stokes/Mueller imagery
- Contrast enhancement
- Target detection/identification

#### **OVERVIEW**

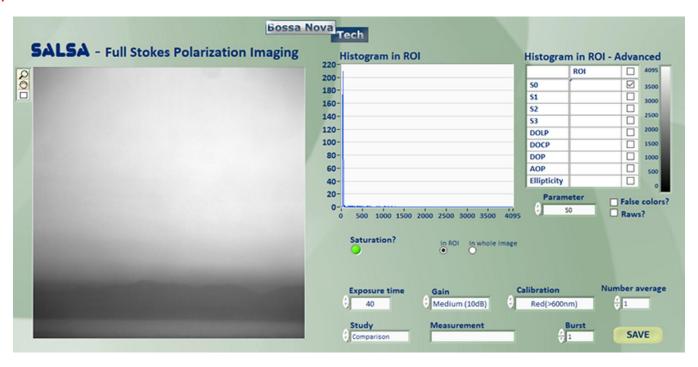
Along with the intensity and the spectrum, the polarization of light carries abundant information. The Stokes formalism allows for complete description of any partial or total polarization state. While most of the available polarization imaging cameras perform only linear Stokes polarization imaging (only the linear polarization can be quantified), SALSA performs live measurement of the full Stokes vector for each pixel of the image at a video frame rate. Many polarization-related parameters can be visualized in real time such as the Stokes parameters (S0, S1, S2 & S3), the Degree Of Polarization Linear (DOLP) or Circular (DOCP), the Degree Of Polarization (DOP), the Angle Of Polarization (AOP), the Ellipticity angle, etc.

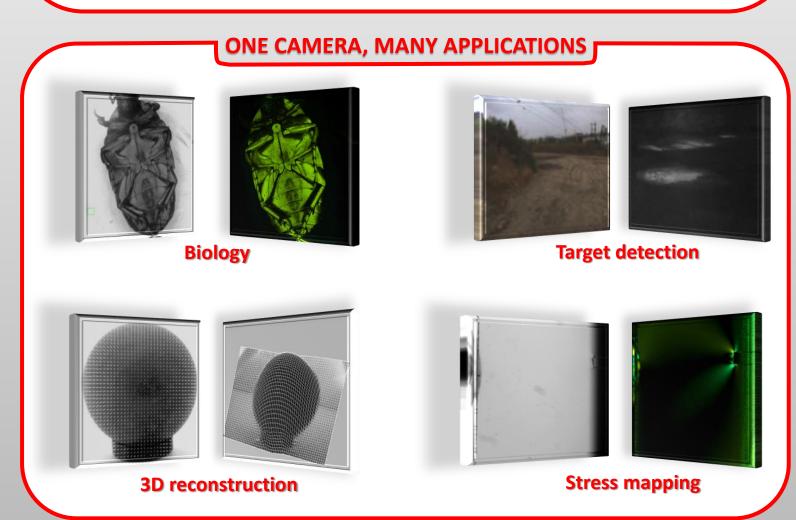


Right ones are 3D-movie glasses (circularly polarized glasses)

### SOFTWARE

A user-friendly software allows a Full Stokes polarization analysis for each pixel of the image, in real time. The user can select a Region Of Interest and visualize all polarization data in live or in analysis mode, save images and record polarization movies.

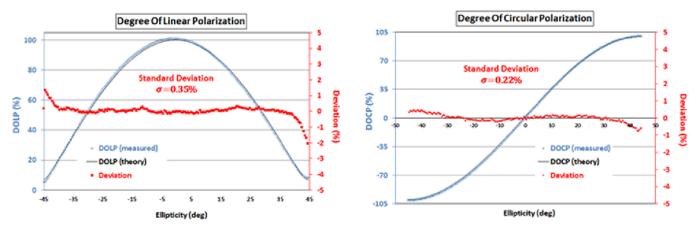




#### 3.2"x3.2"x4" (80mmx80mmx100mm) **Camera Size Video Format GigE Resolution (pixels)** 1040x1040, 1600x1200, 1920x1080 Frame rate for a 1040 x 1040 12 fps (12 bits) - 20 fps (8 bits) resolution **Digitalization** 8 to 12 bits **Synchronization Interface USB** 520-550 nm **Spectral Bandwidth** (custom in visible wavelength upon request) **Calibration Factory calibrated** C-mount (other option available upon request) **Lens mount Software SALSA 2.3**

**SPECIFICATIONS** 

SALSA is calibrated in the factory for a specific bandwidth. The typical precisions for Degree Of Linear Polarization is 3% (P-V), 0.35% STDV, and for Degree Of Circular Polarization: 2% (P-V), 0.75% STDV.



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