

OMS-Lite (Product ID: OMS-Lite)

OMS Lite is an image processing program for use with Pressure-Sensitive Paint data. OMS-Lite includes a simple GUI that acts as a flow chart for PSP data processing. The source images are loaded using file-select-popups and a processing block is available to select the mathematical operations to be performed at each step of the data reduction process. The purpose of OMS Lite is to provide a quick, intuitive interface for novice PSP users. This will allow the user to focus on the use of PSP for experimental measurements rather than the data reduction procedure. OMS Lite tools include the ability to select markers for image alignment, apply filters to the images, convert the processed image to pressure using a-priori or in-situ calibrations, correct the results using in-situ pressure taps, map the data to a surface mesh, and format the final data to be read by a variety of data presentation programs such as TecPlot. OMS Lite is recommended for academic institutions or fundamental research in small wind tunnels using a single PSP system. Large scale tunnels using multiple PSP systems should consider the OMS software suite.

OMS-Lite has and ECCN of EAR99.

