

OMS-Lite

(Product ID: OMS-Lite)

OMS-Lite is an image processing program for use with Pressure Sensitive Paint (PSP) data. OMS-Lite includes a simple user interface 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 allows 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. 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 an ECCN of EAR99.

