

## CLAS-2D Server Software

CLAS-2D Server software enables you to interface your own custom program with AMO WaveFront Sciences CLAS-2D application software. A custom program (client program) can be used to simplify or automate the wavefront sensor operation, display and data collection. Typically this is used for routine applications, such as production or quality control.

### ActiveX dll

CLAS-2D Server is an ActiveX dll that provides an interface for any language that provides support for Active X controls, including the ability to reference a handle to a Window. These languages include: Visual C, C++, C#, and Visual Basic.

Calls to the CLAS-2D application software are forwarded from the client program by CLAS-2D Server in the form of events. The CLAS-2D application responds to the events and reports the results to the CLAS-2D Server program. The CLAS-2D Server program then returns the results to the client program as return parameters from the original call.

### Data Formats

Wavefront sensor data can be exported into MATLAB, ZEMAX or ASCII Grid formats.



## CLAS-2D Analysis-Only Software

CLAS-2D Analysis-Only Software allows you to analyze wavefront sensor data on any Windows<sup>™</sup> computer. It provides the convenience of working with wavefront sensor data files in a location away from the wavefront sensor system, such as an office or a mobile laptop computer. When data must be used by people located remotely from the wavefront sensor, CLAS-2D Analysis-Only Software makes it easy.

The Analysis-Only Software includes all the functions of the regular CLAS-2D application software, except those requiring interaction with the sensor head.

Some of the practical uses of CLAS-2D Analysis-Only Software in post analysis of data are:

- Changing masks, thresholds or other conditions
- Comparing Modal vs. Zonal analysis
- Removing Zernike terms
- Increasing Zernike polynomial order to determine higher order aberrations
- Analyzing M<sup>2</sup> beam quality under different data conditions
- Propagating beam to far field for analysis
- Determining MTF of optics
- Viewing 3D images
- Printing reports
- Printing display screens (forms)
- Exporting data in various formats: ZEMAX, Matlab, Grid (ASCII), Excel

