Imperium-MOCVD™ Control Software

Imperium-MOCVD™ control software is a Windows 7 based SCADA package for controlling MOCVD systems. It was developed for extending Legacy MOCVD system lifetimes by upgrading tools to state of the art control capabilities. Cutting edge features delivered by the database interfacing software make it uniquely capable and superior to any other MOCVD control software available.

Imperium-MOCVD™ is configurable for any MOCVD system and it has been fully developed, tested and qualified. Currently, it is installed on several D75, D125, D180, E300, and E400 tools around the world for R&D and 24/7 production control. Imperium-MOCVD™ is included as the standard control package on all Agnitron supplied equipment products. Other features include:

- Easily configurable and editable recipes with nested layer looping capabilities
- Recipe packing to simplify reviewing recipe layers and parameters
- Real time process data plotting and logging
- Includes Epi-View recipe import feature
- Stand-alone recipe editor available as option

ABOUT IMPERIUM-MOCVD™

- Direct Epi-View replacement adding the latest control technology on a contemporary supported platform
- Real time status of all valves, flows, and pressures via GSD tabs
- Menu configurable routines, alarms, recipes and device configuration
- Compatible with in situ metrology produced by Veeco, KSA and Laytec
- Offers source and purifier consumption calculations and monitoring
MORE ABOUT IMPERIUM-MOCVD™ CONTROL SOFTWARE

- Supports standard and modified hardware configurations and unique feedback control
- Excels at controlling a variety of MOCVD systems including D125, D180, E300, E400
- Unmatched out-of-the-box flexibility for users to configure layout and I/Os
- Built-in customization features for unique configurations ex. plasma sources, RF heating
- Offered as a stand alone upgrade for all legacy MOCVD systems
- Supports analog/digital PLC I/O interfaces as well as DeviceNet CAN platforms
- Provides critical safety redundancy logic ex. overtemp, overpressure situations
- Supports importing of Epiview recipes into Imperium™ recipe format (verification required)
- Product of collaboration by MOCVD scientists, engineers, technicians and users

Recipes are easily viewed and edited with the Imperium spreadsheet style recipe screen.

Standard Imperium™ customization features include the following:

- Recipe looping capabilities for up to three nested loops
- Configurable system routines including step-by-step maintenance prompts
- Flexible I/O setup enabling control of systems with unique modules and add-ons
- Simulation mode for testing/editing recipes without commanding hardware
- Standalone recipe editor for offline recipe editing

Imperium™ control packages offer tool owners the ability to extend the life of legacy systems while adding state of the art control and process monitoring capabilities.

All the Imperium™ control software packages deliver features that unlock capabilities for engineers and operators which enhance system and process monitoring and control. These features ultimately lead to reduced process variability and higher productivity for the system and operators.

All of the Imperium™ control packages are customizable for unique hardware configurations such as plasma sources or inductive heating modules.