Advanced Control Hardware and Software Solutions for Process OEMs and Factory Automation
Faster to learn.
Faster to code configure.
Faster to service.

**Imperium** is a flexible SCADA application for controlling all types of process equipment and is configured by users through menus – *no coding skills required.*

Imperium Control is faster to learn for users, faster to configure for factory engineers, faster to service for field engineers and is Industry 4.0 Ready – you get all the points of customization you need including the following and many more:

- Adding/changing devices that require control/data interfaces on your machine
- Configurable system alarms and interlocks

- Flexible spreadsheet format process recipes
- Simple selectable commands to configure step-based operating routines
- Unique user credentials allow privileges to be easily selected
- Advanced tools for data acquisition, plotting and mining
- Connectivity features for real-time remote monitoring, and notifications

Complete SW/HW matched state-of-the-art control solutions: easy, reliable, serviceable, supported.

Imperium easily integrates with hardware from leading supplier of PC/PLC, touch-panel HMI and I/O module hardware products including Beckhoff Automation, Allen Bradley, Siemens, B&R, Omron and many more.

Imperium process control packages by Agnitron offer a hardware and software matched solution suited to your machine control needs. The intrinsic flexibility of Imperium and hardware solutions by Beckhoff means you effectively get a custom optimized solution without maintaining a development team.
Imperium Process Control Software
Designed to make factory configuration and field support easy.

**Machine State Editor**
- The Machine State Editor enables Administrators to define standard machine state definitions such as Idle/Standy, Shutdown or similar regular machine operation configurations.

**System Routine Editor**
- The System Routine Editor provides an easy to use set of step-based logic commands for building system routines – no coding required. This makes routine configuration and editing and easy to learn activity for equipment engineers and technicians.

**Configurable Alarms and Interlocks**
- Imperium supports a range of user configurable alarms, differential alarms, recipe alarms and interlocking feature to protect users, equipment and your process.

**Configuration Tools**
- Imperium’s powerful configuration tools are managed via User Groups and enforced according to your team and/or customer needs via unique credentials for each user.

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A Short-Cut to State-of-the-Art Machine Control Setup

Custom graphical overlays for intuitive HMI

HMI graphics are imported to Imperium in standard, non-proprietary image formats. Custom graphics can be generated with designs and details according to application requirements.

Imperium Software by Agnitron Matched with PC, HMI and Fieldbus I/O Modules

Agnitron works with customers to configure a matched control software and hardware package appropriate for their application. These packages can then be easily replicated and applied to future builds by the customer. Imperium Control Software fully integrates with comparable hardware solutions from leading hardware suppliers including Beckhoff Automation, Allen Bradley, Siemens, B&R, Omron and many more.

- Control cabinet PCs
- Panel PCs
- Touch Panel HMI
- Embedded PCs
- In-cabinet and On-machine (hardened) I/O modules

A wide range of fieldbus modules suited for your specific application can be chosen as part of the Imperium Control Package Solution. This architecture supports controls integration of mixed device protocols.

Imperium Control Packages are suited for most any PC/PLC based machine control applications including:

- Chemical/physical vapor deposition
- Plasma etching
- Wet bench automation
- Molecular beam epitaxy
- Gas cabinet, exhaust abatement
- SCADA for facility infrastructure
- Biological, chemical or food processing machines

Flexible PLC and Industrial PC Solutions

A wide range of fieldbus I/O modules supports mixed device protocols

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