PTIQ

Intelligent Software. Powerful Solutions.

Introducing PTIQ

PTIQ is the latest intelligent software solution for PlasmaPro and Atomfab processing equipment. It provides an exceptional level of system control, optimising process performance.

PTIQ is the latest intelligent software solution for Plasma Technology systems. It provides an exceptional level of system control with powerful scheduling and insightful reporting tools, that unlock new possibilities for improved processing efficiency and dynamic workflows.

PTIQ Software optimises system and process performance in the Lab and Fab, with different levels of software available to suit facility requirements.
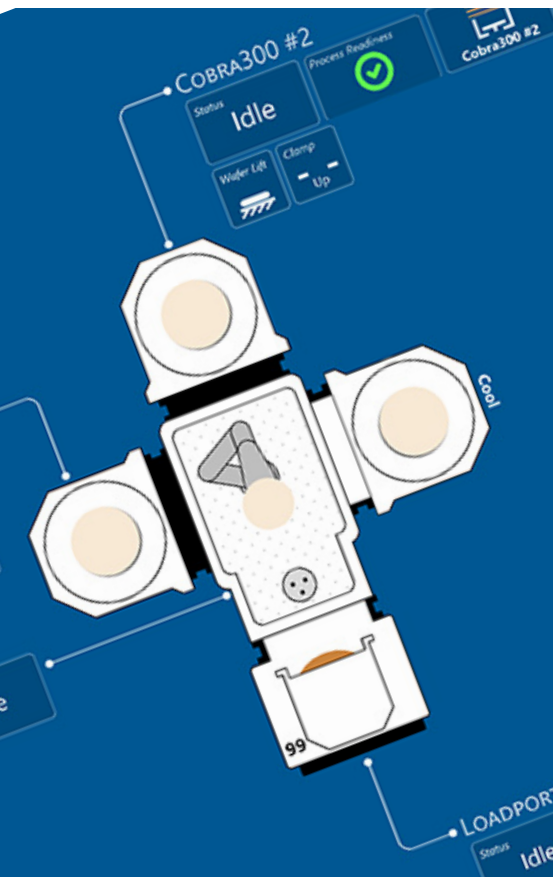
User-friendly Design

- 'At a glance' design makes information and control more accessible for maximum user productivity

- System components can be represented by LabView-style functional diagrams to better understand the system architecture

- High contrast colour scheme designed for use in typical yellow light manufacturing environments

- Designed with touchscreen use in mind
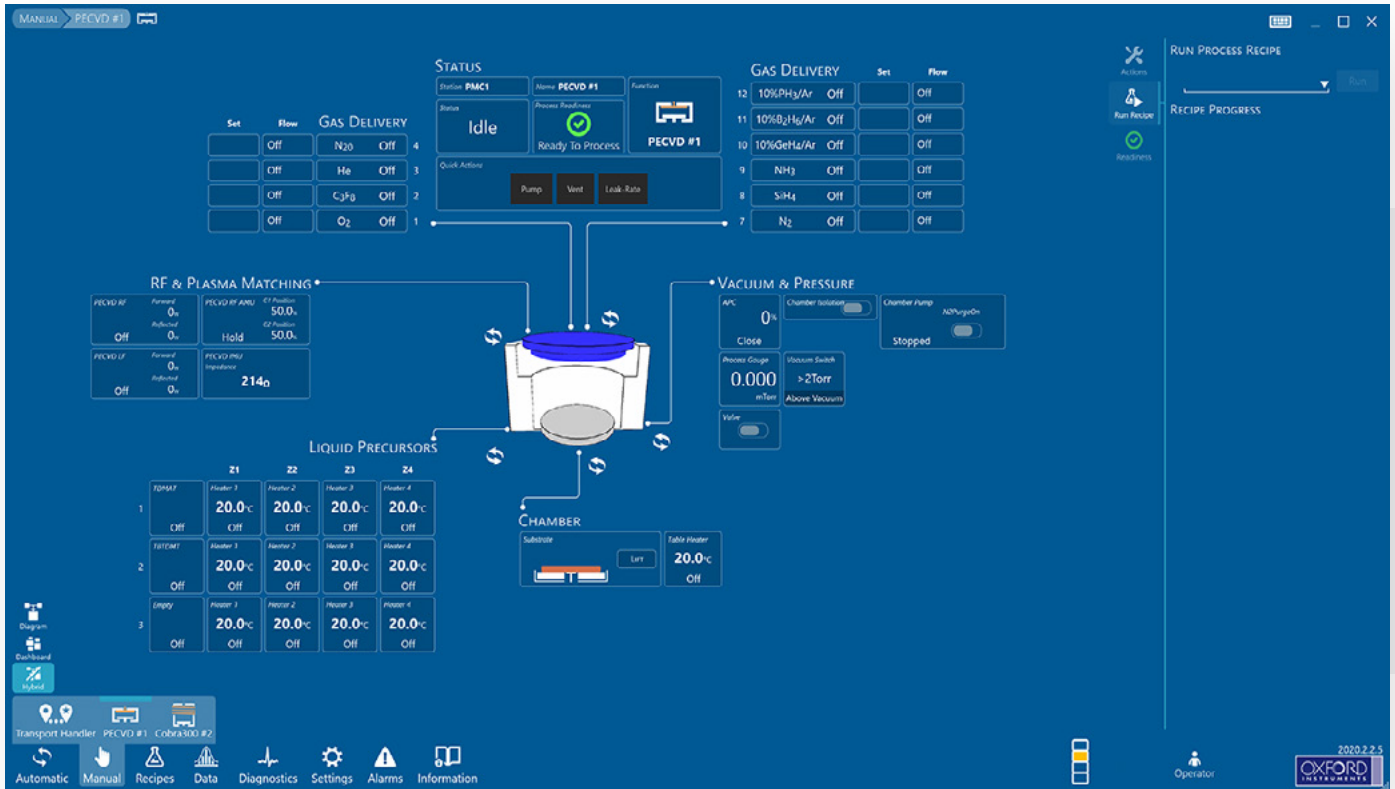
Operational Readiness & Accuracy

- Visual indicators of system process readiness help the user avoid operational issues earlier, for better process results

- Compare results of recipe runs to ensure reliable, repeated processes over time, before/after events

- Millisecond accuracy and 1000-point logging for improved data interrogation

Flexibility & Reliability

- Compliance to the SEMI 95 human interface standard provides a familiar experience for your operators and engineers

- Customisable for error-free, multi-user operation in any cleanroom environment
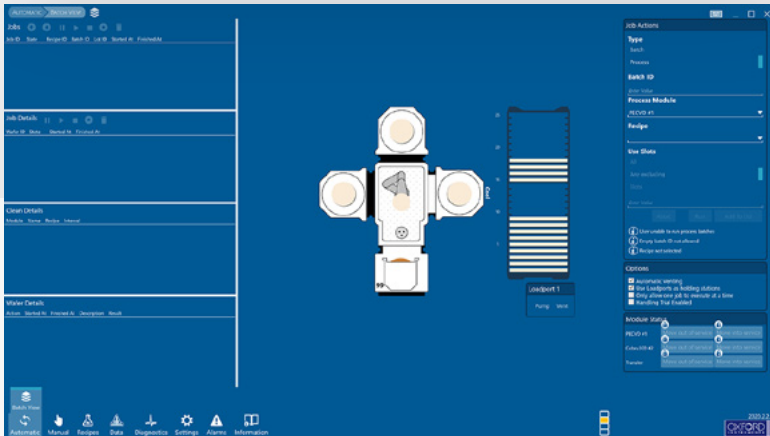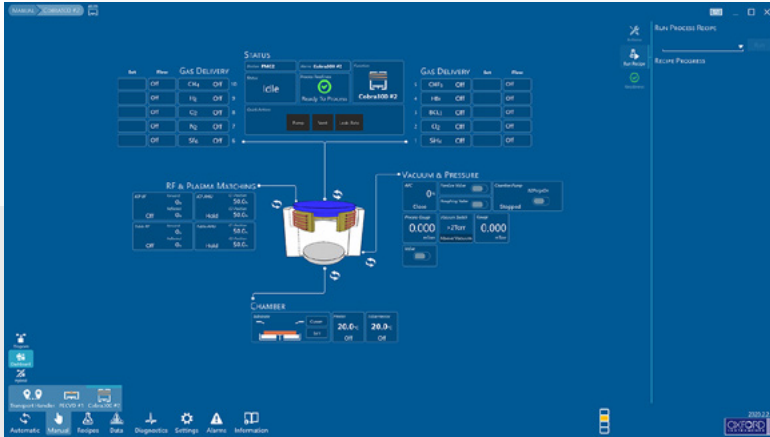
Software Features

Recipes

- Recipes in editable format for error-free and ease of use

- Recipes in private mode for increased security in multi-user environments

- Runs are linked to specific recipe versions, for improved traceability

- Recipes include standard checks, such as for leak up rates and MFC fill rate, enabling verification of performance before wafer processing, thus automating interventions for increased efficiency

- Tolerance values can be defined per-step, enabling more refined control over your process

Permissions & Scheduling

- Device operation linked to user accounts, for secure use

- Configuration options (e.g. pressure units, batch options) linked to user accounts, to fine-tune the user experience for increased productivity

- The powerful scheduling enables overlapped chamber operation with wafer transfers (including wafer lift, electrostatic clamping, wafer preheating), for increased throughput

Software Options

AnalytIQs

PTIQ AnalytIQs is a set of analytical tools to maximise the uptime of the system, to allow deeper understanding and interpretation of process logged data through the statistical analysis of data. They further extend the PTIQ LogViewer for the tracking and analysis of all system parameters.

SECS/GEM Factory Host Connection

A software module that connects the Oxford equipment over a SECS/GEM link to a factory host controller for use in an automated semiconductor fab.

On the Roadmap

AnalytIQs Pro

Premium module to measure, analyse and report on the data captured whilst processing.

DiagnostIQs

A set of engineer analysis tools that are essential for self-maintained systems and trouble shooting drills down to the heart of the electronics to control the equipment. These are the same tools available to Oxford Instruments customer support engineers.

PTIQ Backup

This premium module is responsible for periodic backup of recipes, configuration and process run data to a remote computer. This can be for archival purposes or to transpose the data ready for external processing as required.

How to upgrade

If you currently run a system with PC2000 or PC4500 and want to upgrade to PTIQ, we have several upgrade paths available. On completion of upgrade, you will be automatically enrolled in the Oxford Instruments Software Assurance Agreement.

- The Software Assurance Agreement covers the system control software and provides software help desk access beyond existing warranties

- The agreement provides peace of mind knowing you have access to all the latest software releases with improved features and functionalities

- Supported recipe migration, including use of migration tools

We also have site wide PTIQ Upgrade plans. As development effort continues to shift from PCx applications to PTIQ, you can upgrade your whole site for a discounted rate to ensure continuity of software support going forward.

Visit plasma.oxinst.com/PTIQ for more information on how to upgrade.

Request a live demo!

Please visit plasma.oxinst.com/PTIQ-software to request a live demonstration from one of our experts.

For further information please contact your local Oxford Instruments Plasma Technology office.

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