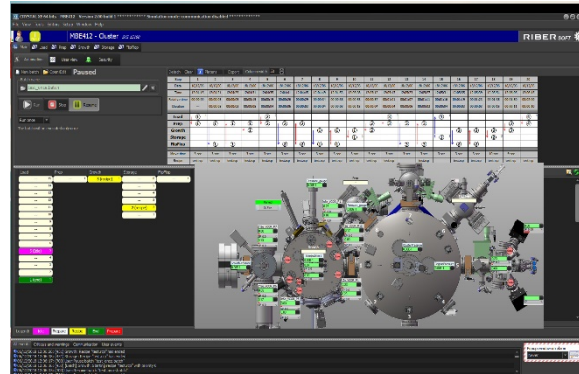


Process Control Software Crystal XE

- Real-time control of the entire MBE process
- Easy to implement, operate and upgrade
- User-friendly graphical interface
- Windows 10-based operating system
- More than 250 units in operation



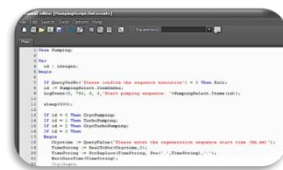
Product introduction

RIBER Crystal XE is a powerful and complete process control solution designed for the real-time supervision of MBE research and production machines. This graphical and interactive automation tool, based upon industry-standard operating systems, provides continuous information during the entire process, from equipment configuration to growth data acquisition, storage and processing. Crystal XE is the culmination of 30 years of experience in MBE, PVD and CVD software. It also features an advanced development interface allowing the final user to create his own automation with additional equipment, custom forms, charts and data acquisition.

Key features

Crystal XE really make Smart MBE possible with :

- Real time control & adjustment of growth recipes upon user-defined conditions
- Advanced system flexibility over equipments and communication protocols
- Advanced system monitoring & events recording



Save time

- Automation of routine tasks
- Multi-threading software
- Batch mode & real-time operation

Easy visualization

- Customizable graphical work environment
- Pre-defined visual objects

Peace of mind

- Machine and process securities
- Automatic data recording

Simplicity in programming

- Scripts and graphical programming
- Search engines
- Conditional recipes

Flexibility

- Various controllable hardware
- Third party software interfacing and data exchange protocols

Machine monitoring

- Time & temperature of use monitoring
- Shutters actuation counters



License & maintenance fees

Designation	Features & benefits
CRYSTAL XE License	<p>Offers the full benefits of state-of-the-art MBE software to control and monitor your MBE system</p> <p>Easy upgrades from previous Crystal versions (5/7/8) & Recipe transfer ability from previous Crystal versions</p> <p>Compatibility with the newest accessories & easy driver development for non listed controllers</p> <p>Requires Annual maintenance contract fees to be updated with the most recent releases</p>
Annual maintenance contract for Crystal XE license	<p>This contract ensures the constant access to the latest Crystal XE version, including bugs corrections, new equipment, advanced scripting functions,... It also includes a priority access to Riber hotline for troubleshooting and remote assistance</p> <p>Without maintenance contract, your Crystal XE license is valid, but no updates and bug corrections would be available for your daily use</p> <p>Hence, when a customer buys a Crystal XE license, there is a one year “warranty” to inform Riber about new bugs correction. Once out of warranty, any bug fixing or new feature availability can only be accessed through annual subscription of the annual maintenance contract, invoiced every year,</p> <p>If annual contract has been cancelled, in order to re-enroll, penalty fees may apply in addition to previous years payback.</p>

Dedicated website and documentation

For additional & detailed information, please visit:

www.crystalxe.com

- Free trial versions
- Dedicated user access “My Crystal XE”, with your system configuration saved
- Detailed manuals (Software, developer kit, cloud & mobile,...) & presentations

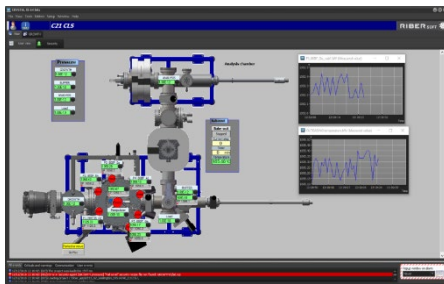
Register for our newsletter and purchase your license & maintenance fees

See also “MBE Trainings” Section

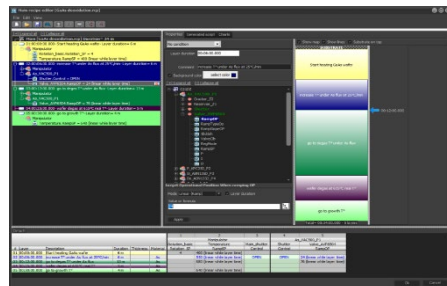
MY CRYSTAL XE



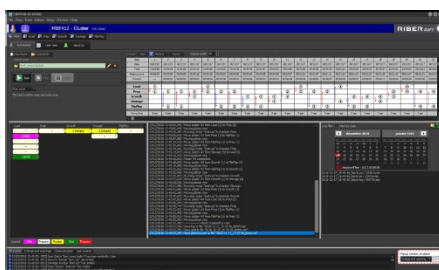
Screenshots



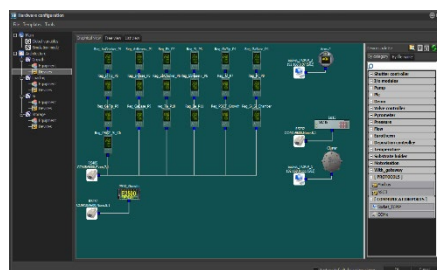
Main system view



Graphical recipe editor



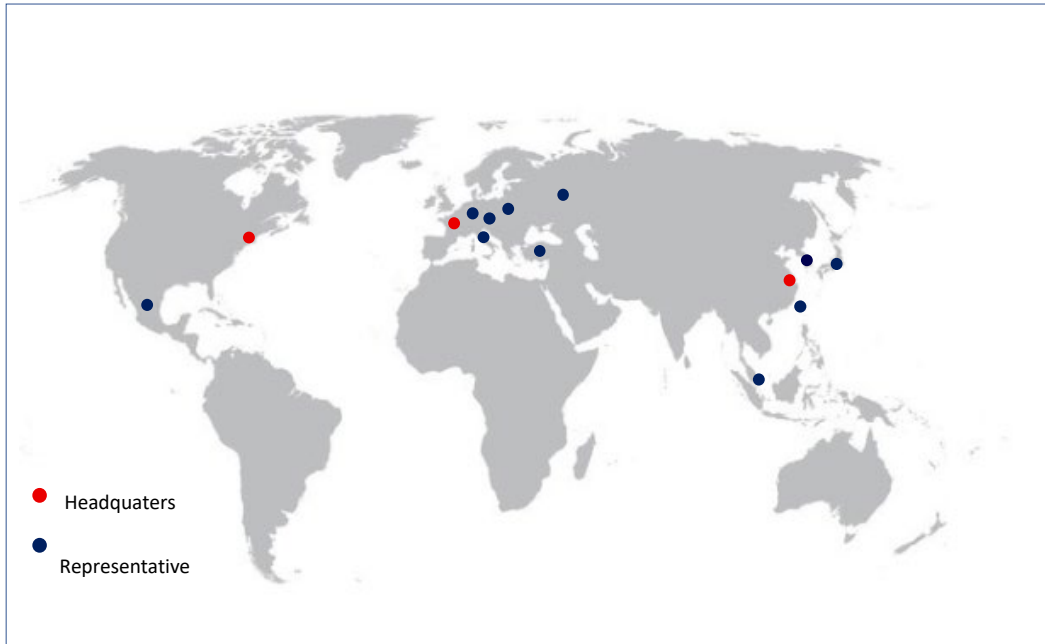
Transportation system view – Platen tracking



Hardware configuration

RIBER SALES AND SERVICE NETWORK

For more information, please contact your local sales representative



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