

JADE Standard

THREE LEVELS

| | 1 | 2A | 2B | 3 |
|--|---|----|----|---|
| Intuitive, State-of-the-Art UI | • | • | • | • |
| Reads All Vendor Pattern Files | • | • | • | • |
| Smart Column Data Importer | • | • | • | • |
| Merge Multi-Scans/Segments | • | • | • | • |
| 1, 2 and 3D Pattern Overlay | • | • | • | • |
| Déjà Vu ID Similar Pattern Files | • | • | • | • |
| Supports Multiple Axes/Wavelengths | • | • | • | • |
| Handles Variable/Fixed-Slit Data | • | • | • | • |
| Zero Offset and Theta Calibration | • | • | • | • |
| Background Fitting/Batch Fitting/Removal | • | • | • | • |
| Auto Peak Search and Multi-Filter Search | • | • | • | • |
| Wide Variety of Report and Print Options | • | • | • | • |
| Includes Starter Database | • | • | • | • |
| ICDD PDF Database Access and Others | • | • | • | • |
| Multitude of Choices for Data Retrieval | • | • | • | • |
| View Crystal Structures and Reflection Planes | • | • | • | • |
| Simulate Patterns from Crystal Structures | • | • | • | • |
| Individual Analyst/Shared Work Environments | • | • | • | • |
| Supports Custom d-I% list for Phase Overlay | • | • | • | • |
| Profile Fitting with RIR Quant, Size and Strain | • | • | • | • |
| Batch Profile Fitting | • | • | • | • |
| Whole Pattern Based Search/Match (S/M) | • | • | • | • |
| Use Chemistry and Unit Cell Data in S/M | • | • | • | • |
| Solid-Solution and Isotypical Phase ID | • | • | • | • |
| Preferred-Orientation Data and Single Peak S/M | • | • | • | • |
| Minor and Trace Phase ID | • | • | • | • |
| Structure Database Manager | • | • | • | • |
| WPF-Rietveld Refinement (Unlimited Phases) | • | • | • | • |
| Gold Standard Quantitative Analysis | • | • | • | • |
| Seamless Integration with Database Retrieval | • | • | • | • |
| Auto-Loading of Structure Data from Database | • | • | • | • |
| Combination of Phases with/without Structure Data | • | • | • | • |
| Linking of Unit Cell, Phase Broadening Parameters | • | • | • | • |
| Custom d-I% (hkl, FWHM, Skew) to Fit Clay Phases | • | • | • | • |
| March-Dollase and Spherical Harmonics Orientation Function | • | • | • | • |
| Amorphous Content with/without Internal wt% Standards | • | • | • | • |
| Atomic Occupancy and Bond Distance Constraints | • | • | • | • |
| Polynomial and Spline Curve Background Fitting | • | • | • | • |

RECOMMENDED CONFIGURATION

Intel® Core™ i7, i5 or i3, 8GB RAM, 24" or larger monitor, Windows 10 (or Windows 8 or 7) JADE has been written to take full advantage of the Windows environment and ever more powerful hardware available today. JADE makes many calculations and provides a tremendous amount of information back to the user. Your JADE experience will be richer on a larger screen. JADE can read all current data formats from Synchrotron Beamlines, Rigaku, Bruker (Siemens), Malvern Panalytical (Philips), ARL Thermo Fisher Scientific (Scintag), Shimadzu, Proto, XOS, XY data and other formats. JADE also understands the many reference patterns and structure databases and their formats including ICDD products (PDF-4+, PDF-4+/Web, PDF-4/Axiom, PDF-4/Minerals, PDF-4/Organics, PDF-2), NIST Crystal Data, AMCSO *.amc CIF, MOL, PDB, and others, including custom databases.

JADE Standard
with both S/M and WPF

JADE Pro

The Professional Version of JADE
Includes everything found in
JADE Standard and much more.

JADE Pro is constantly adding features.

New this year, JADE Pro has added a toolkit, which includes items such as size/strain, an area detector reader, structure solver, laue simulation, charged flipper, an XRD pattern digitizer as well as cluster analysis visualization tools. **Additionally JADE Pro & Standard has been translated to both Chinese and Japanese.**

JADE Pro has a low buy-in with updates serviced by subscription. One of the most valuable benefits of software as subscription is that your software is always up to date. All new features are included, which helps you expand the capabilities of your lab and expand knowledge of your particular science and appreciation of your data sets. JADE Pro can be used as a shareable floating-seat license. For example, a group of 5 people can share 3-seat license which would provide for 3 systems running JADE Pro concurrently.

For most of our customers, the Professional version of JADE is the most logical path to provide the most features for the least cost. If you have any questions at all as to what path may be best for your lab or organization, please contact us - we always love to hear from our fellow XRD Scientists!

In addition to all the features found in JADE Standard, below is a highlight of some additional features found only in JADE Pro.

- One-Click Phase ID and Rietveld Analysis
- Size and Strain Analysis (Warren-Averbach)
- Pattern Indexing (All Crystal Systems)
- Line-Based Cell Refinement
- Simulate Series of Powder Patterns from Crystal Structures
- WPF and Rietveld Batch Processing
- Rietveld Structure Refinement (Atomic Parameters)
- Fourier Map Tools
- Ab Initio Tools (Charge Flipping +)
- Cluster Analysis of Powder Patterns
- Floating (Shareable) Network License
- Future Feature Updates via Subscription