

## Licensed Options in Jade 6

Various optional functions (plug-in's) are available for Jade 6 at extra cost, as described below. If certain features are not accessible on your version, this may explain why.

- Features in Option 'Jade Plus': [cell refinement](#); [pattern indexing](#); [d-spacing and Miller indices generator](#) ; [lattice constant calculator](#); [cell data graphing](#); [crystallite size & strain analysis](#); [residual stress analysis](#) ; [3D viewing of pattern overlays](#); [sort-on-similarity](#)) (for customers who do not have the search/match option); Data Filters Listed in [Others \(FFT, Film...\)](#); [FIZ-ICSD access](#) to create PDF index files from your ICSD CD if you have one for retrieval and search/match; 'Deja vu' identification from your own pattern archive; Userfile S/M using line-based method.
- Features in Option '[Easy Quant](#)': Profile-based RIR analysis with counting statistics; Brindley particle-absorption and preferred orientation corrections; Amorphous content determination with internal standards; 2/3-D pie & bar charts and presentation reports; Generalized internal standard calibration plot; Generalized external calibration curve; Spiking calibration plot; Procedure file creation and application.
- Features in Option '[Search/Match](#)' (the 'Identify' menu): Whole pattern phase identification with major, minor, trace, and residual phase S/M; Solid solution and preferred orientation S/M; S/M filters such as PDF subfiles, chemistry and crystallography; Factor analysis of S/M hits with isotypical pattern finder and suppression; ICSD-aware filters with ICDD cross reference (for PDF release of 1998 and later).
- Features in Option '[XRD Simulation](#)': Calculate (simulate) XRD powder patterns from crystal structures; Support 230 space groups with more than 600 different settings; Allow atomic thermal tensors with 'full' physics simulation; Totally integrated into Jade with interactive dialogs and graphical displays; Built-in structure database manager with direct-access to your FIZ-ICSD CD database; Calculate your own PDF subfiles from all ICSD entries for d-I overlays and phase identification in Jade.
- Features in Option '[WPF Refinement](#)': Whole Pattern Fitting and Rietveld Refinement with structure and/or structureless phase data; All new code, designed with advanced optimization algorithms and totally integrated into Jade with interactive dialogs and graphical displays; Automated refinement setup for precise lattice constant determination; Quantitative analysis with/out internal standard and amorphous content; Structure refinement with intelligent constraints on atomic coordinates; Extensive output with presentation printouts and reports; This option also includes the '[XRD Simulation](#)' features described above.

Contact MDI if you need more information regarding the above options.