

THE STANDARD FOR QUANTITATIVE ACCELERATED LIFE TESTING ANALYSISSM



ALTA

ALTA.ReliaSoft.com

ReliaSoft's ALTA is the first and only commercially available software package designed expressly for quantitative accelerated life testing data, using rigorous scientific analysis methods. The software is available in two versions: ALTA Standard and ALTA PRO, which provides additional capabilities.

Data Types: ALTA's data entry spreadsheets support Complete and Right Censored (Suspended) data, entered individually and in groups, with up to eight stress types (depending on the life-stress model). In addition, the Monte Carlo utility provides randomly generated data sets based on a specified model, distribution and parameters.

Time-Varying Stress Profiles: In ALTA PRO, you can define stress profiles that vary with time, such as step-stress, ramp-stress, etc.

Distributions and Life-Stress Relationships: ALTA supports data analysis with the Weibull, lognormal and exponential distributions combined with the following life-stress relationships: Arrhenius, Eyring, Inverse Power Law, Temperature-Humidity, Temperature-NonThermal and, in ALTA PRO, Proportional Hazards, General Log-Linear and Cumulative Damage.

Parameter Estimation and Calculated Results: ALTA uses Maximum Likelihood Estimation (MLE) for parameter estimation. Integrated utilities quickly return calculated reliability results (such as reliability given time or BX life) based on the data analysis and your inputs. Confidence bounds are available for all calculated results and parameters.

Unparalleled Plotting Capabilities: ALTA automatically generates a complete array of reliability plots, with customizable plot settings. Plots are metafile graphics (*.wmf) that can be annotated and used in your reports and presentations.

Utilities for Related Analyses: Degradation Analysis, Tests of Comparison, Likelihood Ratio Analysis and flexible spreadsheets for your own custom analyses.

Seamless Integration with BlockSim, Xfmea and Weibull++.

Part of ReliaSoft's
Reliability Office suite,
which also includes:

- Weibull++
- BlockSim (RBD+FTA)
- Xfmea
- RGA
- MPC 3 (MSG-3)
- QTMS (FRACAS)



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