

# BLUEHILL® VHS ANALYSIS

Powerful Tools for Analysing your Data



Bluehill VHS Analysis is the most modern package on the market for analysis of high rate materials test data.

Designed to integrate with data generated by Instron VHS machines, this software provides a complete solution covering needs ranging from routine batch testing, to unique specimen analysis, or initial test development.

It also supports use of virtual strain data exported by Digital Image Correlation (DIC) analyses, and even comparable raw data from other test machines for lower strain rates.

Bring modern, user-friendly tools to working with high rate test data and improve repeatability and traceability of your results.



Import raw data and perform analysis



Handle batches of specimens



Generate standard materials characterization results



Report and export results data

## SMART DATA IMPORT AND SYNCHRONISATION

- Combine force and specimen data from Instron VHS with external strain data from DIC
- Automatic synchronization using advanced algorithm to align and merge data
- DIC data is automatically up-sampled so that faster data stream is not lost
- Automatically crop unused run-in and run-out data



## CREATE REPEATABLE ANALYSIS METHODS

Bluehill VHS Analysis enables the user to manage multiple method templates to handle different analysis routines and test configurations easily. Existing analyses can be stored, reviewed and updated, while protecting original raw data that can be re-imported and processed with alternative methods.

- Create methods for different batch tasks or start afresh with a unique test
- Apply consistent data processing between tests
- Extract material characteristics such as modulus and yield strength according to international standards
- Allow expert users to optimize settings per specimen
- Review batches and create new reports
- Protect method integrity by enabling user security features



## MORE USER-FRIENDLY TOOLS



### Data preparation

- Automatically identify the test region
- Apply clear and easily comparable filters to exclude noise
- Create average curves from groups of specimens



### Calculations

- Built-in calculations for key analysis needs
- Quick and simple to set up
- Powerful user-defined calculations for customized measurements



### Outputs

- Configure results tables for batch tests
- Create report templates
- Export processed results for external data management

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