Bluehill® LE Testing Software
Bluehill LE
Testing Software
What’s Inside...

Instron® Bluehill® LE is the newest materials testing software solution. Built on the industry-leading Bluehill 3 platform, Bluehill LE brings a lot of the core features in a lighter package to meet a wide range of testing needs including all major international standards (ASTM, ISO, BS, EN, DIN, and JIS) driven requirements. We invite you to explore the key features and capabilities that can help you meet your testing and operational requirements.

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Your Application, Our Expertise

Learn ways Instron’s application expertise is built into the software making it the industry’s leading material testing software.

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Efficient Workflows

Features have been carefully designed with one goal: to speed up testing to get your product out of the door faster and at a high quality.

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Flexible, Yet Simple

Built for simplicity, Bluehill LE provides the right degree of flexibility at the time you need it the most including generating reports just the way you like it.

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Advanced Maneuvers

Some of the most powerful features of Bluehill 3 made their way into this lighter version through the Expression Builder.
Instron® Bluehill® LE Software provides the capabilities you need to perform all standardized tests including tension, compression, flexure, peel, tear, friction, and cyclic tests.

Bluehill LE automates data acquisition, machine control, analysis, and reporting for a wide range of test requirements. Take advantage of Instron’s expertise that is built into the software to comply with leading industry testing standards including ASTM, ISO, BS, EN, DIN, and JIS.
Standardized Test Methods
Bluehill® LE includes a large library of general test methods tailored to the most common test standards. Test method templates are pre-formatted with all the relevant test method criteria, such as test parameters, procedure, and required calculations.

Test methods are continuously reviewed by Instron application engineers and test professionals to meet the latest requirements. Contact Instron for availability.

Built-in Application Expertise
From setting up the specimen loading conditions to a calculation algorithm and everything in between, Bluehill LE guides you every step of the way to set up your tests with consistency and in compliance with standards. Most of the settings are pre-populated with possible options so that you can choose the option relevant to you.
Efficient Workflows

Status Console – Designed for Simplicity and Safety
Located conveniently above the operator’s workspace is the intuitive Bluehill® LE status console. The console’s live display of the system’s load, extension, strain, and time provides immediate feedback on the current test status. The console is user configurable and allows for a wide variety of tasks including calibration and balance, setting limits, setting periodic reminders for calibration, and flagging load drifts more than a specified amount.

Specimen Selector
The Specimen Selector is a unique feature to view and manage your tests quickly and easily. Click on any specimen to simultaneously view the graph, results, test inputs, and status with options to exclude or delete.

Graphs and Control chart
Graphs of load and extension data can be setup with markers to indicate key points like yield, break, and multiple peaks. Quality control becomes easy when the key metrics are displayed on a control chart.
Automatic Data export
Depending on your workflow needs you can setup destinations for the test data: ASCII files, PDF reports, and Instron® TrendTracker™ database.

Test Inputs
Capture key test information like specimen dimensions and barcode IDs directly from the devices without manual data entry.

One Double Click to Test
Arrange frequently used methods on your desktop and simply double click on the required test method.
A Common Language

In the testing world, Bluehill is an industry standard. Available in fifteen languages and used with thousands of testing systems worldwide, Bluehill’s test methods, calculations, and data formats are universally recognized and accepted. Whether you are matching data with a local supplier or comparing test methods with a multi-national customer, Bluehill LE allows you to speak a common language.

Bluehill LE’s screen display is designed as an intuitive interface for the operator and is divided into two main working areas:

- Status console used for system setup and test monitoring
- Workspace used to setup and run the test procedure

Flexible, Yet Simple

Intuitive Operation, Minimal Training

Instron® Bluehill® Software is the industry standard for user-friendly design. The clean visual design guides the user to the right place for the right task. Click a tab to see your choices and select what you want to do. It’s that simple. Choose both the manner in which you want the test to run and the content you want to see. You control everything from the graph style and the column format in the results table to the test screen layout.
Report Outputs
To accommodate a wide range of reporting needs, Bluehill® LE incorporates several predefined report templates for output to a printer – or save the file directly as a PDF file format for easy sharing. Changing the placement of reporting elements, like charts and tables, does not involve any laborious fine adjustments. Things like header and footer can be easily setup with pre-populated choices.

Copy and Paste Capability
Use the standard “copy and paste” technique to copy result tables and graphs from Bluehill LE into your favorite software package including Microsoft® Excel, Word, or PowerPoint.
Powerful Expression Builder

Although Bluehill® LE’s calculation library covers a wide range of applications, occasionally unique requirements arise. Bluehill LE lets you create custom user calculations to meet these needs. These user calculations offer:

- A range of easy-to-use mathematical, trigonometric, and logarithmic functions
- Automatic unit checking to ensure calculation integrity.
- Ready-to-use parameter library to build an expression.
- The ability to confine the computation to a specific region of interest (called Domain) including the yield region or the load extension curve spanning between two particular peaks.
- Reporting logic to pick a specific calculation from a set of alternatives based on user-defined logical condition. For example: to change the break load computation based on failure criteria or the adhesive peel strength based on number of peaks.
Support for the Life of Your Equipment

Instron® is one of the largest suppliers of materials testing machines in the world. Our reliable testing systems are supported by a global team with the resources to ensure you receive the assistance you need.

You can count on us
- Represented in more than 160 countries, speaking 40 different languages
- Global support provided by more than 250 factory-trained Service Engineers
- ISO 17025 accredited on-site and laboratory calibration and verification services are offered throughout Europe, North America, Brazil, Australia, China, Japan, Korea, Singapore, India, Thailand, and Taiwan
- Training courses tailored to the needs of customers upgrading to Bluehill® LE or Bluehill 3

We are only a phone call away
- Technical support hotline accessible anywhere in the world
- Expert consultants provide tailored solutions to meet your testing needs
- Preventative Maintenance, calibration & verification services, repair, system refurbishment & updates, re-location services, training, and parts

Resources at your fingertips • www.instron.com
- Our Testing Solutions section provides answers to your most current testing challenges
- Access to our complete online Accessories catalog

Stay at the forefront of materials science
- Utilize the expertise of our Applications Engineering Laboratory or Custom Engineered Solutions Group for the latest technological advances in materials testing
- Our state-of-the-art Calibration Laboratories and on-site service delivery teams offer a comprehensive range of accredited calibration and verification services complying with ASTM, ISO, and Nadcap standards: Force, Speed, Strain (extensometers), Displacement, Impact, Temperature, Torque, Creep, Strain Gauge Channel, Hardness, and Alignment.
- Verification of CEAST instruments is available.

We build more than testing systems; we build relationships.
Global Support that is Local to You

Operating with 25 offices in 18 countries and with more than 1200 employees, we have a global infrastructure that is local to you, and remain committed to advancing material and component testing techniques.

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