

## BLUEHILL<sup>®</sup> ELEMENTS

For Your Basic Testing Needs



Built on the Bluehill<sup>®</sup> software platform, Bluehill Elements<sup>™</sup> meets the requirements for simple tension, compression, flexure, peel, and tear testing. With functionality such as automatic report generation, prompted test workflows, live control charts, and the option to utilize the TrendTracker database, Bluehill Elements is ideal for quality control testing.

### FEATURES FOR EFFICIENT WORKFLOWS

#### AUTOMATIC DATA EXPORT

Users can export test results and raw data in CSV or custom text files. Export formatting is completely customizable, allowing users to easily retrieve data or interface with a lab information management system.

#### RAW DATA AND CALCULATIONS

Examine each data point for any measurement in the software and choose from the full suite of Bluehill calculations to get the results you need from a test.

#### OPERATOR INPUTS WITHOUT MANUAL DATA ENTRY

Automatically input specimen dimensions from measurement devices, scan a barcode to enter data, or provide users with simple dropdown menus to eliminate manual data entry.

#### INTUITIVE LIVE DISPLAYS

Testing status, measurements, and key results are displayed on easy-to-read, live displays.

## FLEXIBLE, YET SIMPLE

### INTUITIVE OPERATION, MINIMAL TRAINING

Instron® understands the reality of workforce changes. Therefore, we have chosen minimal training as a key measurement of usability. Bluehill® Elements™ Software is designed with a simple, user-friendly interface.

### RIGHT REPORT FOR THE RIGHT AUDIENCE

Bluehill Elements incorporates several pre-defined report templates for output to a printer or email, and also allows you to save files directly to PDF for easy sharing. Changing the placement of charts and tables can easily be set up with pre-populated choices. Users can tie a specific report template to a given method, automating the report generation for different tests.

### BASIC SECURITY

For production or quality control testing where general testers should not have access to change parameters in the method, Bluehill Elements allows three configurable levels of security – Administrators, Managers, and Operators.

### A COMMON LANGUAGE

In the testing world, Bluehill is a standard tool. Available in fifteen languages and used with thousands of 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 Elements allows all users to speak a common language.

## ADD-ONS FOR BLUEHILL ELEMENTS

### TESTCAM

Connect a USB webcam to experience point-by-point video playback, allowing users to view test data alongside video after the test has finished.

### PASS/ FAIL COMPONENT

Set up acceptance criteria for multiple test results. If one of those results falls above or below the acceptance range, Bluehill Elements will automatically display a large icon in green check for Pass or red X for Fail.

### TRENDTRACKER

The TrendTracker plug-in for Bluehill Elements allows users to export results directly to the TrendTracker database. The TrendTracker Viewer provides an intuitive interface to search, display, and analyze test results over time.

## COMPUTER REQUIREMENTS

Requires Windows 10 or 11, 64-bit Operating System. Bluehill Elements can be used with a touch monitor.



Example of workspace while running a test sample.

## SOFTWARE COMPARISON

	Bluehill Universal	Bluehill Elements
<b>CONTROLLER SUPPORT</b>		
6800, 5900, 3300, 59 Series, 8800 and New EXTEND Retrofits	✓	-
3400	✓	✓
<b>HARDWARE SUPPORT</b>		
Digital I/O	✓	-
Analog Outputs	✓	-
Advanced Extensometers <sup>1</sup>	✓	-
Transducers	Force Strain Torque User	Force Strain Torque <sup>2</sup>
Pneumatic Grip Control	✓	✓
Temperature Devices	✓	.3
<b>OPTION SUPPORT</b>		
TrendTracker Plug-in	✓	✓
TestCam	✓	✓
Pass/Fail	✓	✓
TestProfiler	✓	-
Test Method Suite	✓	-
Analysis Module	✓	-
Multi-Station	✓	-
Advanced Performance	✓	-
Torsion Add-On	✓	-
Traceability Module	✓	-
<b>TEST TYPE SUPPORT</b>		
Quick Test	✓	✓
Tension, Compression, and Flexure	✓	✓
PTF	✓	✓
Metals	✓	✓
Creep/Relax – All Variants	✓	No support, existing methods and samples cannot be opened
TestProfiler – All Variants	✓	No support, existing methods and samples cannot be opened
<b>FEATURES</b>		
Graph Types	Multi-specimen Control chart Multi-measurement Double Y-axis	Multi-specimen Control chart
Virtual Measurements – Expression	✓	-
Control Modes	All <sup>4</sup>	Displacement only
Expression Builder	✓	.5
Sub Sample	✓	-
Security: Active Directory and Windows Login Support	✓	-
Auto-Positioning Crosshead <sup>6</sup>	✓	-
Revision History	✓	-

Notes:

1. SVE2, SVE3, AVE2, AVE3, AutoX750, MFX, M300, and M500
2. User-defined 'Strain' transducer is available in Bluehill Elements
3. No pre-soak, temperature transducers, chambers, or furnace support
4. Displacement, Strain, Force, Stress (i.e. any available Measurements)
5. The 'user calculation' is the only Expressionable field in Elements
6. 6800 frames only

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