Bluehill[®] Universal

The Next Generation of Testing Software





The digital revolution of the 1980s and 1990s introduced us to personal computers, operating systems, and the internet. These monumental changes catalyzed an evolution in Universal Testing Machines to embrace digital electronics, moving operators away from a world of dials, pushbuttons, and controls to a world of right and left clicks.

TRUSTED SINCE 1946 Today, the evolution of consumer devices and the use of smartphones has once again changed the way we view the world. We expect all of our devices and systems to have endless computing and communications power, with simple interfaces controlled with the touch of a finger.



BLUEHILL® UNIVERSAL

Simpler. Smarter. Safer.

Bluehill Universal is the testing industry's most powerful and advanced testing software. Its intuitive workflows are designed to simplify operator training, increase testing efficiency, and minimize safety hazards.







Live Displays

Configure unlimited Live Displays to show force, displacement, time, and results to provide users with immediate feedback on current test status.

Graphs and Control Charts

Graphs, most typically displaying force vs. displacement data or stress vs. strain data, can easily be viewed in more detail by pinching to zoom. Multiple graphs can be displayed in the workspace, including control charts in a completely customizable layout.

Results Table

Using subsample, users have the ability to sort results by all parameters including operator name, specimen break location, and specific specimen properties.

Specimen Selector

Specimen selector allows users to view and manage tests quickly and easily. Press on any specimen to view the graph, results, test inputs, and status, with options to exclude or delete if permissible.



Bluehill[®] Universal's streamlined functionality keeps testing workflows simple for new or infrequent users and helps high-volume labs remain efficient.



Pre-loaded Templates

Bluehill Universal features an extensive library of pre-configured methods for some of the most commonly used ASTM, ISO, and EN standards. The methods are packaged in modules that are specific to your testing application.



QuickTest

For when you need results fast, QuickTest allows users to enter a few simple parameters and run their test within seconds.



Integrated Specimen Measurement

Connect micrometers and calipers directly to the system to effortlessly import specimen dimensions into Bluehill Universal.







Workflow

Users can be guided through the entire testing process with step-by-step instructions, ensuring that your tests remain repeatable, simple, and error-free. The prompts are customizable with your own text and images.



Pass/Fail

Quickly visualize whether or not a test has passed or failed based on the acceptance criteria set in the test method.



Barcode Scanner

Quickly and accurately enter sample or specimen information into Bluehill Universal by using a barcode or QR scanner.



Simplicity doesn't mean sacrificing advanced features. Bluehill Universal offers customizable modules that give you the power and flexibility to run tests at any level of complexity.

i i	Test	Method		Report
		Results 1		•
	Operator	Machine Direction	Force at Break [lbf]	Tensile stress at Break [ksi]
	✓ Machine Direction: Cross			Number of speci
	Dan		35.56	22.80
	Dan	Cross	42.84	27.47
	Dan	Cross	77.19	39.58
	Dan	Cross	45.81	29.38
	Landon	Cross	45.91	29.44
	Landon	Cross	45.87	29.41
	Landon	Cross	42.18	27.05
	Dan	Cross	44.95	28.83
12	Dan	Cross	43.51	27.90
Mean			47.09	29.10
Standard deviation			11.74	4.44
Coefficient of variation			24.93	15.28
	Machine Direction: Machine			Number of speci
			41.89	26.86
			2.09	1.34

Subsample

The Results table allows you to sort specimens into groups by shared traits such as material ID, machine direction, or operator name. Once sorted, results can be configured to display group statistics for each selected calculation.



TestProfiler Option

Build simple cyclic tests that include ramps, holds, and triangle waves. Conditional logic allows you to create looping patterns that help you simulate real life scenarios with your tests.



TestCam Option

Connect a USB webcam to experience point-by-point video playback, allowing you to view the test even after it has finished.



Analysis Option

Replay, re-analyze, or make modifications to previously tested specimens without having to repeat the entire testing process.

SMARTER Bluehill[®] Universal

Expression Builder



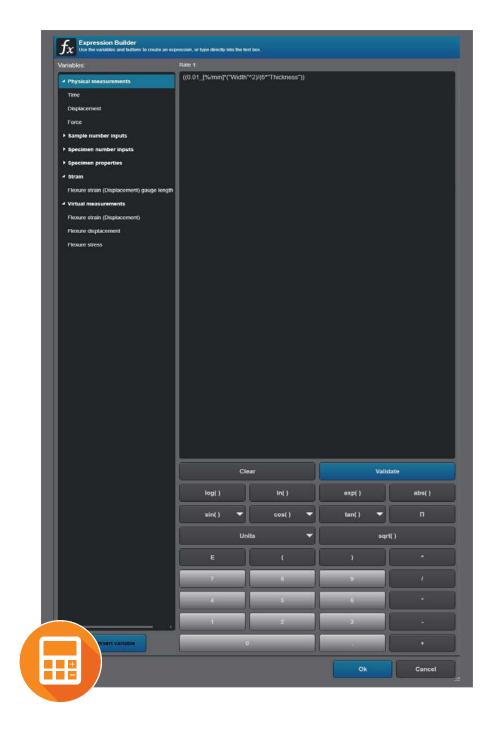
Build your own test method functions using a list of pre-defined variables. Users can write functions for detecting test events, defining new calculations, making measurements, or setting domains for calculations. For example, ASTM D790 for the flexural testing of plastics requires the test speed to be set as a function of the support span, specimen depth, and a straining rate of 0.01. Using Expression Builder, Bluehill can automatically calculate test speed per each specimen based on these parameters.

Export Setup Tab

The Setup tab allows users to choose which content to export, including test method parameters and results. The export preview allows users to easily review the content, format, frequency, and behavior of their export. This includes enabling the system to execute an external program after data export.

Export Format Tab

In the Format tab, users choose their preferred output file format. The format can be a CSV file or a custom text file, allowing for complete flexibility to integrate with a lab information management system (LIMS).



-	Method		Report	
General Sample	Specimen Measurements C	aculations Test Control	Console Workspace	Exports Prompted Test
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tabase Export	Content			
port File 1	Method parameters.			
port File 2	Results table 1 results:			
	Results table 1 group statistics:			
	Results table 1 sample statistics.			
	Results table 2 results:			
	Results table 2 group statistics			
	Results table 2 sample statistics.			
	Raw data:			
	Export file settings			
	Export file 1 frequency:	On demand		T
	Override default folder:			
	Export behavior:	Overwrite with warn	ung .	
	File name convention:	Sample name		
	Create a file for each specimen:		_	
	Post export actions			
	Execute a program:			
	Program.			
	include the export file name as an a	irgument:		
	Expect proving	_	_	1
	Export preview Select the content of the file under Se	etup.		
	Select the content of the file under Se Configure the format of the export file Review the selections made for the fi	e content and format.		
	Results Table 1 ,Result	,Result ,Result		
	nemin:	,Result ,Result ,(Unit) ,(Unit) "Value1-2","Value1-3" "Value2-2","Value2-3"		
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Export preview

Select the content of the file under Setup. Configure the format of the export file under Format. Review the selections made for the file content and format.

Results Table

General File Sett Reports Databas Export

esults Table 1	Result	Result	Besult
	. (Unit)		
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pecimen2	,"Value2-1	", "Value2-	2", "Value2-3"
pecimen3	,"Value3-1	", "Value3-	2", "Value3-3"
ample statistic)			
ample statistic	2,"Stat2-1"	,"Stat2-2	","Stat2-3"

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	,Result	,Result	,Result
	(Unit)	, (Unit)	, (Unit)
Speciment	"Value1-1"	"Valuel-2"	,"Value1-3
Specimen2	"Value2-1"	, "Value2-2"	, "Value2-3
Specimen3	"Value3-1"	"value3-2"	, "Value3-3
Sample statisticl	"Stat1-1"	,"Stat1-2"	,"Stat1-3"
Sample statistic2	"Stat2-1"	"Stat2-2"	."Stat2-3"

SAFER Bluehill[®] Universal

Bluehill Universal features integrated safety coaching compatible with all 6800 and 3400 Series systems. A highlighted border on the dashboard's interface changes color depending on the status of the system, providing a clear warning to anyone using or approaching the test space that a test is in process.



Setup

When an operator is setting up a test, the software's border is blue to signify that the testing system is in the Setup state. While in Setup, the software limits the crosshead to a safer jog speed and reduces the pneumatic grip closing pressure when paired with Instron's Smart-close Air Control Kit.

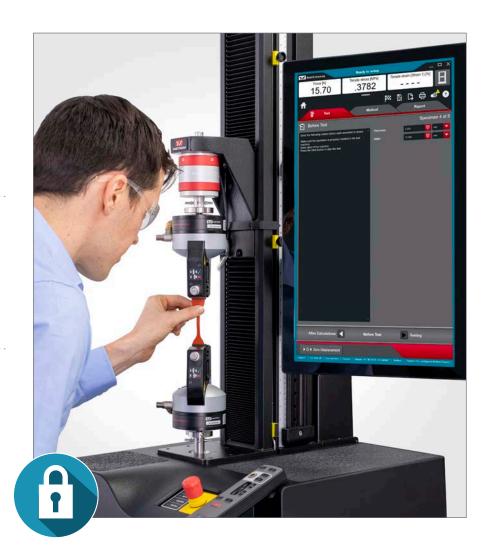


When an operator is ready to test, the frame is unlocked and enters a Caution state. Bluehill Universal software uses a yellow border and clear warning to indicate that the system is now fully enabled. If the operator does not press Start within two seconds, the system automatically returns to Setup mode.



Testing

When Start is pressed in the Caution state, the system enters the Testing state, changing the border and warning color to red. The warning message disappears after two seconds but will return if the test is left unattended for five minutes or more.







DATA ANALYSIS AND REPORTS

Bluehill[®] Universal

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TrendTracker™ Viewer Option

The TrendTracker viewer allows users to query off of the results in the TrendTracker database.

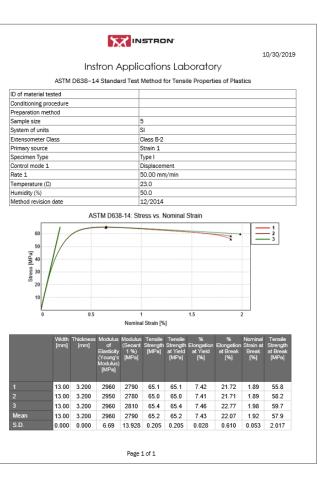
Data Analysis with TrendTracker™

Export Bluehill results directly to a TrendTacker database. Users can establish multiple database connections in Bluehill Universal, then select the TrendTracker database in the appropriate method. Batch export allows users to dump previously tested Bluehill data directly into the TrendTracker database.



Report Generator

Create customized report templates that ensure a professional and consistent style for reporting test results. Reports can be generated, printed, and emailed with the press of a button. Report format options include Word, PDF, and HTML.





Bluehill Security allows lab managers to configure permissions in the software, granting access to trained personnel and limiting access where needed. Bluehill users can choose from three different security options that offer various levels of integration with your organization's existing security network.





Active directory Windows® Blachill No security			etup.	Ready to setu	ehill Universal
Configure the components of the system and set system preferences Configuration Preferences Database Preferences Security limits access to the software in order to protect your system, methods, and sample files. To enable security select the type of security and press Change to configure the security settings. Security limits access to the software in order to protect your system, methods, and sample files. To enable security settings. Security type: No security Image: Configuration of the system and set system preferences Security type: No security Image: Configuration of the system and set system preferences Security type: No security Image: Configuration of the system and set system preferences Security is based on set groups on your corporate network. Permissions on each system are assigned to a group. Users that are included in the assigned group have those rigit access to the software requires the user's network credentials. Windows® Security is based on the Windows user groups that are configured on the computer where the software is installed. Permissions on each system are assigned to a group. Users that are included in the assigned group have those rigit access to the software requires the user's network credentials.	E	7			
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Bluehil

Security is internal to the software.
 Each person has an individual user profile for each system.
 Access to the software requires the user's software credentials

No security • All users have full access to the software. • No passwords are required.

Active Directory

Link usernames and passwords in Bluehill Universal to usernames and passwords on your corporate network. Active Directory ensures that your Bluehill login information meets your corporate IT standards for password length, expiration, and character requirements. With Active Directory security, laboratories can allow consistent access to Instron equipment between labs, regardless of location. It is ideal for organizations with multiple Instron systems and system operators, as security is easily configured by selecting user groups.

Windows®

When using local Windows to manage permissions in Bluehill Universal, usernames and passwords in Bluehill are linked to usernames and passwords on your local computer. Instead of meeting network-level standards, Bluehill passwords are required to meet the standards set on the local computer. Windows Security is ideal for laboratories with dozens of Instron operators where Active Directory cannot be used, as security can still be easily configured by selecting user groups.

Bluehill

Set up users by creating unique usernames and passwords directly in Bluehill Universal. Since an individual profile must be created and configured for each person in a lab, Bluehill's internal security is ideal for laboratories with few Instron systems and a small group of system operators.

No Security

Not all laboratories require the use of security. For example, research and development labs often change Bluehill method, sample, and system-level parameters constantly, and do not need to restrict permissions.

TRACEABILITY

Bluehill[®] Universal Traceability Module

Bluehill Universal's Traceability Module enables users to meet the audit requirements associated with FDA 21 CFR Part 11, ISO 17025, NADCAP, and others. Through seamless integration of electronic approvals, revision history, and an automated audit trail, this powerful add-on combines with Bluehill's built-in security to provide unmatched data traceability.



Revision History

View the full revision history of Bluehill methods, tested samples, and report templates. Each revision contains the details of its affected item, including a time stamp, both the previous and the new value, as well as the name of the users involved with initiating and, if required, approving the change.



Electronic Approval

Configure primary, secondary, and tertiary electronic signatures to ensure method revisions and test data are reviewed before a change is implemented or data is publicized.

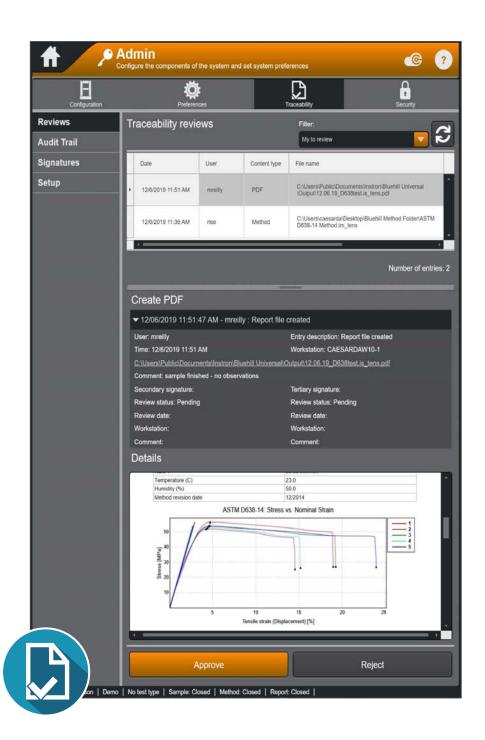


Audit Trail

Track system level usage, additions, modifications, and deletions in a secure and searchable audit trail. System level activities range from starting a new test sample to failing a login attempt.

Revision Histor		Signatures	
		Sort by:	Date - descending
Action	Affected item	New value	Previous value
Pending changes			
Upper bound modified	Results Table 1: Width	13.50 mm	0.00 mm
Upper bound modified	Results Table 1: Thickness	3.300 mm	0.000 mm
12/06/2019 11:36:04 AM -	Revision 3: rlee- changed prelo	ad and preload rate	
Value modified	Preload: Value	5.00 N	0.10 N
Value modified	Preload: Rate	10.00 mm/min	5.00 mm/min

Close



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INSTRON® CONNECT

The Next Generation of Technical Support

Instron's unrivaled application expertise and best-in-class service establishes us as the leader in customer satisfaction. Instron Connect introduces a powerful communication platform that brings our support engineers even closer to your organization.



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96%

96% of the Fortune 100 list of the world's largest manufacturing companies use Instron test systems.

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