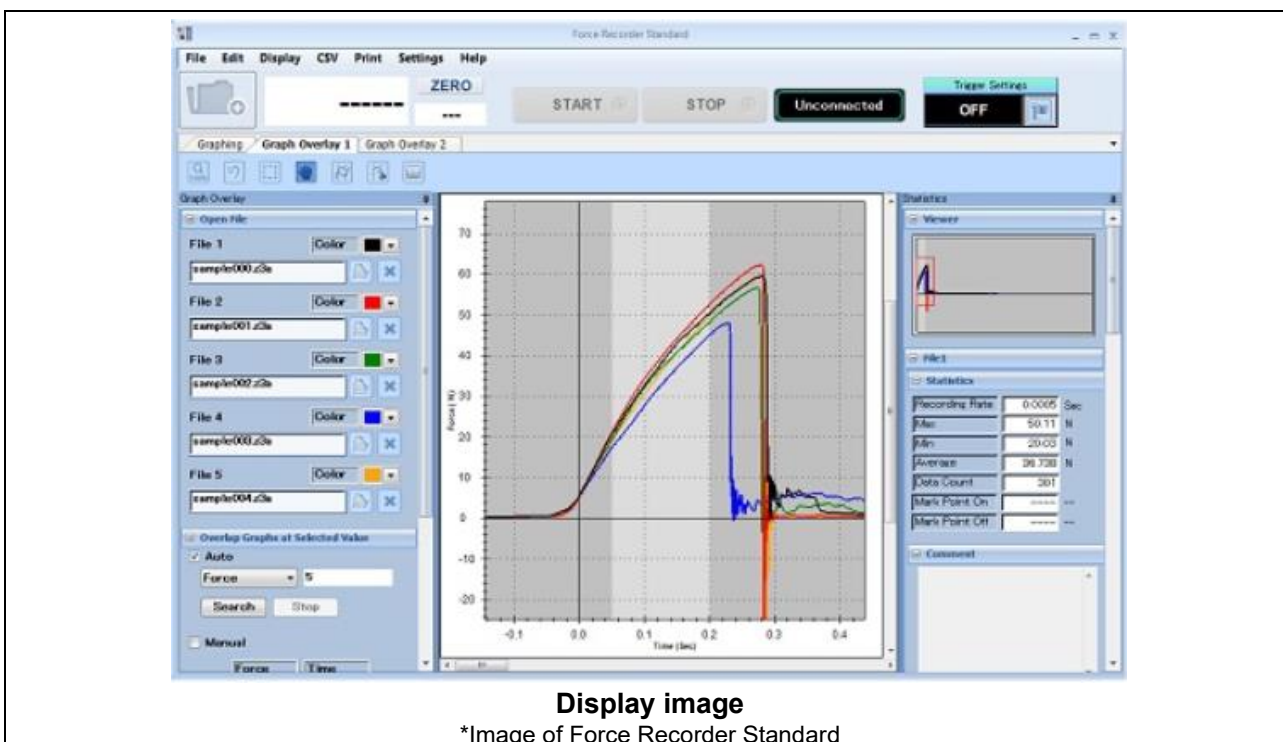


Force-Time Graphing Software Force Recorder (Light/Standard)

- Data can be transmitted to plot the force-time graph easily.
- Graph can be drawn accurately and precisely due to the high sampling rate. (Mx. 2000Hz)
- Light ver. (simple graphing) and Standard ver. (with editing functions) are available.



Common functions of Force Recorder Light/Standard

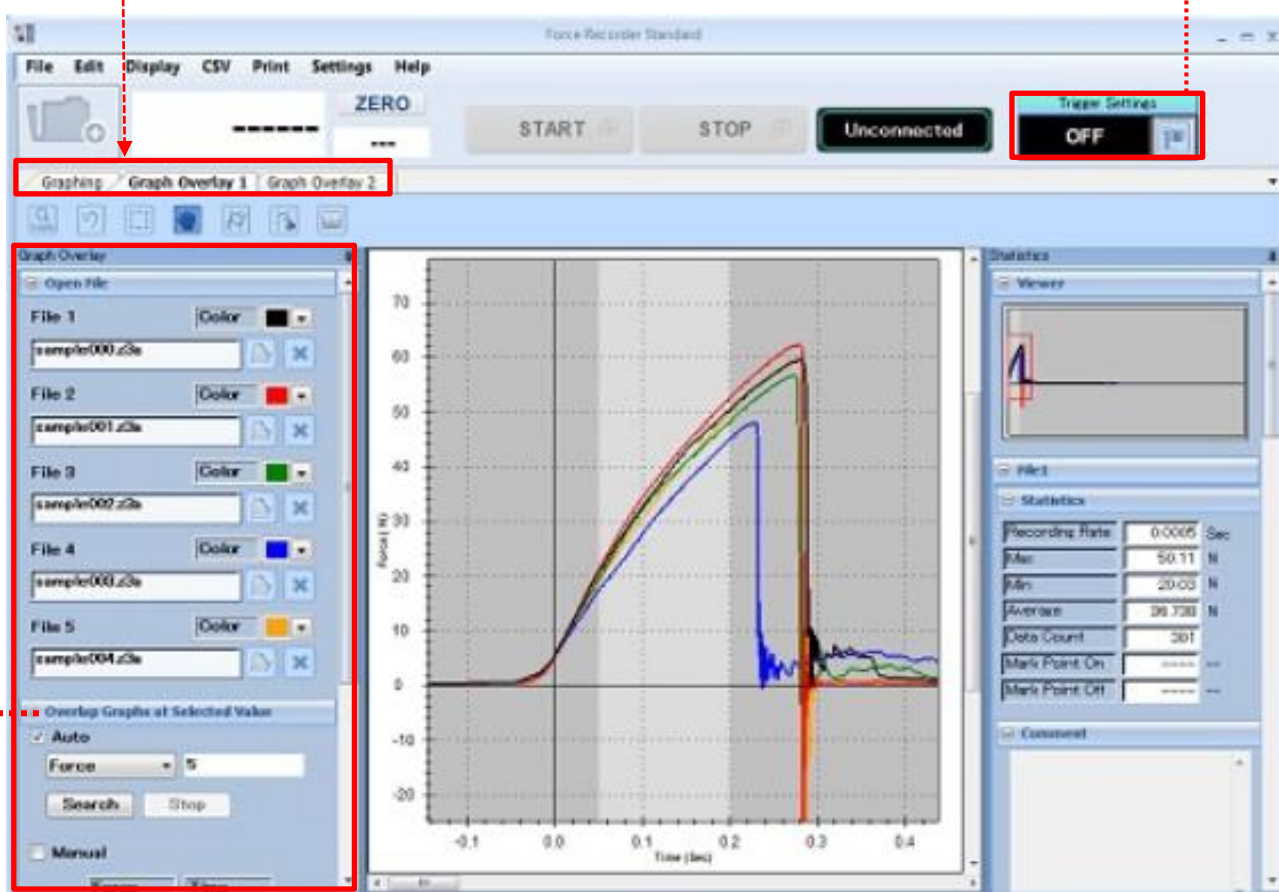
Graph scaling function	The graph can be zoomed in/out, or scroll to check the details.
Statistical calculation	Maximum/minimum/average values are automatically calculated.
Comment function	Comments can be inserted on the graph to record the test condition.
Print	Graph, statistics value and comment can be printed out as report format.
CSV file converting function	Recorded data can be converted into CSV format.
Preview saving function	Graph can be saved in various format. (e.g. Word, Excel and PDF)
Force gauge setting	The setting of force gauge can be changed via software.

Additional functions of Force Recorder Standard	
Graph overlay	Graphs can be overlaid for easy comparison. (up to 5 graphs can be overlaid at once)
Trigger function	Data can be recorded automatically by setting up the START/STOP value.
Point marking	You can add comments at a specific point on the graph.
Border line function	You can draw line on the recorded graph at specific force/time as a judgement line.
Area select function	You can extract the necessary data, and the new statistical value will be calculated.

[Software Display Function]

Tabs
You can compare different graph easily.

Trigger function
The software will automatically record the graph according to the set value.



Graph overlay
 You can overlay the graphs in Graph Overlay Tab *
 The file name and color can be viewed easily.
 The overlaid graphs can be aligned on any position for comparison. *
 * This function is only available in Force Recorder Standard.

*This is the image of Standard version. There is no overlay tab and trigger function in Light version.

Graph zooming function

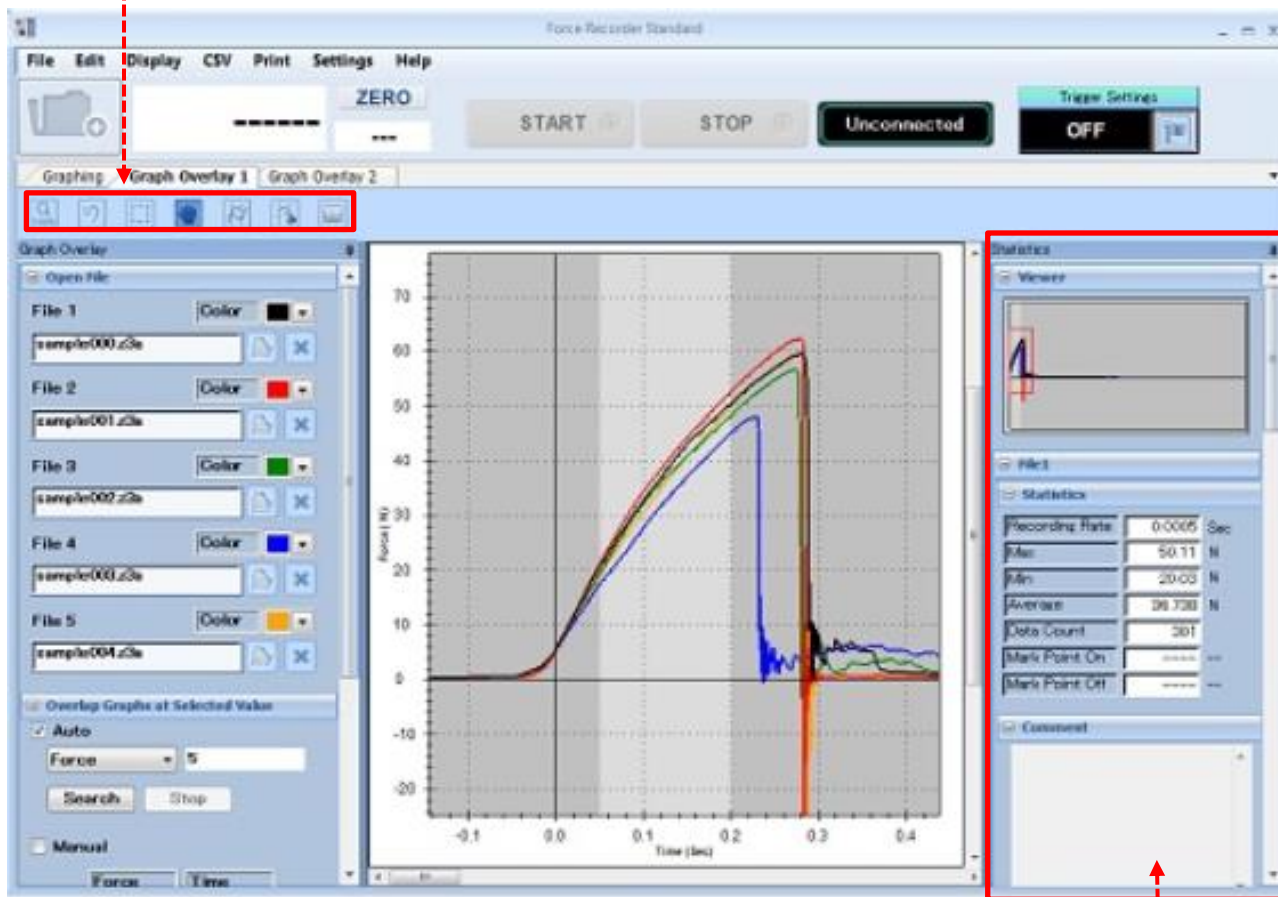
The graph can be easily zoomed in/out and scrolled for analyzing.



(Light Version)

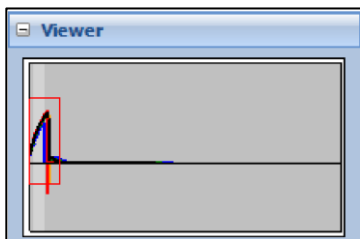


(Standard Version)



[Graph viewer]

It shows the whole graph and the selected area.



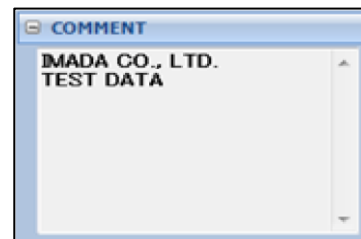
[Graph statistics]

The maximum/minimum/average values are automatically calculated.

Statistics		
Recording Rate	0.0005	Sec
Max	50.11	N
Min	20.03	N
Average	36.738	N
Data Count	301	
Mark Point On	----	--
Mark Point Off	----	--

[Comment]

Comments can be inserted on the graph to record the test condition.



* This is the image of Standard version. There is no overlay tab and trigger function in Light version.

[Main Functions]

Force-Time Graphing	Graph Analyzing
<p>1. You can START/STOP the recording by simply click the buttons.</p> <div data-bbox="204 394 767 483" style="border: 1px solid black; padding: 5px; text-align: center;"> </div> <p>(Start/Stop buttons)</p> <p>2. Force transition can be viewed clearly by 2 different displays which show the whole graph and current tracing values.</p> <div data-bbox="204 638 767 1032" style="border: 1px solid black; padding: 5px;"> </div> <p>3. The software will automatically record the graph according to the set value. (Trigger function) * e.g. The software will start recoding when force reaches 1N, and stop after 10 sec.</p> <p>* Only available in standard version.</p>	<p>1. You can extract the necessary data, and the new statistical value will be calculated. (Area select function)</p> <p>2. You can add comments at a specific point on the graph. (Point marking function)</p> <p>3. You can draw line on the recorded graph at specific force/time as a judgement line. (Border line function)</p> <div data-bbox="852 638 1415 1032" style="border: 1px solid black; padding: 5px;"> </div> <p>(Screen after edited)</p> <p>* Only available in standard version.</p>
Viewing Graph	Print and Save
<p>1. You can zoom in/out or scroll easily to check the details of the recorded graph. (Graph scaling function)</p> <div data-bbox="204 1424 584 1505" style="border: 1px solid black; padding: 5px; text-align: center;"> </div> <p>(Graph viewing buttons)</p> <p>2. The graphs can be overlaid for easy comparison. (up to 5 graphs can be overlaid at once) *</p> <p>* Only available in standard version.</p>	<p>1. You can print the graph, statistical values, and comment in report format.</p> <p>2. You can enlarge and print the specific area of the graph.</p> <p>3. Recorded data can be converted into CSV format. (CSV file converting function)</p> <p>4. Preview can be saved as image file in various format. (e.g. Word, Excel, and PDF)</p>






Output Functions	
<p>CSV format converting</p> <ul style="list-style-type: none"> - Recorded graph data can be converted into CSV format. - It is also possible to add new data to an existing CSV file. 	<p>Print/Data output *</p> <ul style="list-style-type: none"> - Recorded data can be saved as Word, Excel, and PDF format. - Graphs can be used as image files and pasted into files. - The recorded data can be printed out with graph, date, time, statistical value, and comments to form a complete report.



* This is the preview image of Force Recorder Standard version.

Main Functions Comparison			
Version	Light	Standard	Professional
Feature	Graphing only	With editing functions	Force-displacement graphing
Graphing	Force-time	Force-time	Force-time Force-displacement
Data transferring speed (Max)	2000 data/sec	2000 data/sec	2000 data/sec
Recording data point (Max)	7.2 million	7.2 million	7.2 million
Displacement output	N/A	N/A	√
Graph overlaying function	N/A	√	√
Trigger function	N/A	√	√
Point marking	N/A	√	√
Border line function	N/A	√	√
Capture function	N/A	√	√
Graph scaling	√	√	√
Statistics output	√	√	√
Comment	√	√	√
Print	√	√	√
CSV file converting	√	√	√
Preview saving (PDF/Word/Excel)	√	√	√
Force gauge setting	√	√	√

* For further information of Professional version, refer to Force Recorder Professional specification.

Operating Environment	
Model	Force Recorder (Light/Standard)
Operating environment	OS: Windows 8.1/10/11
Hardware	CPU: 1GHz or higher Memory: 2GB or more Hard disk: 10GB (Data storage area) more
Plat form	.NET Framework4.6 later
Execute environment	Microsoft Internet Explorer6.0 later Windows Installer 3.1 later
Image size	Resolution 1024*768 pixel more

Compatible Devices		
For Force-Time graph		
Digital Force Gauge ZTS/ZTA series	Sensor Interchangeable Amplifier eZT	Desk Type Load Cell Amplifier FA Plus2/eFA Plus2
		
For Torque-Time graph		
Handy Type Torque Gauge HTGS/HTGA series	Screw Cap Torque Tester DTXS/DTXA series	
		

Related Products	
Motorized Test Stand MX/MX2/MH/MH2/EMX series	Optional Cable CB-518
The motorized test stand can be operated by switch to perform measurement.	By combining with ZT series force gauge and test stand, it activates the motion control and overload-preventing functions.
	

[Custom-made]

We can offer additional functions or modifying software to improve data management method and measurement efficiency according to your needs. Contact us for details.

Examples:

Function	Description
Pass/Fail Judgment	The software will judge the test result according to the set value.
Automatic Capture Functions	The software will automatically capture the needed graph based on the set values.
CSV Auto Save	The CSV file will be saved automatically after the measurement.
Trigger One-Touch Setting	The trigger function can be activated with ease.

[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- A force gauge (sold separately) is required to use this product.
- This product is protected by Universal Copyright Convention and Japanese Copyright Act.
- Returns are not acceptable. Check the specification, working conditions and operating environment before purchase.

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Email: shraddhaimpex@gmail.com / sales@shraddhaimpex.net
Web: www.shraddhaimpex.net
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