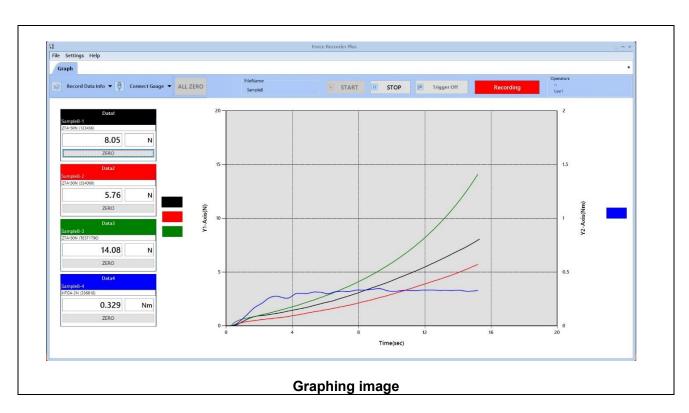


Multiple Force-Time (Torque-Time) Graphing Software Force Recorder Plus

- -Data Graphing of up to 4pcs devices simultaneously
- -Displays different units (eg: force N and torque Nm) on the same window
- -Up to 10 graphs can be overlaid for visual analysis
- Operation history tracking and password protection possible for security





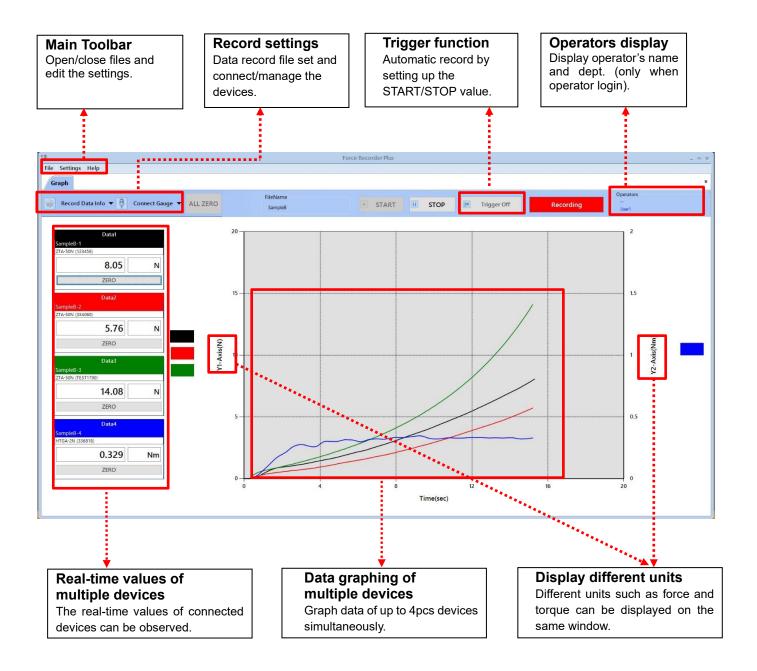


Common functions of Force Recorder Series		
Graph scaling function	The graph can be zoomed in/out, or scroll to check the details.	
Statistical calculation	Max/min/average values are automatically calculated.	
Print	Graph and statistics value can be printed out as report format.	
CSV file converting 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)	
Device setting	The setting of device can be changed via software.	

Main functions of Force Recorder Plus		
Data graphing of multiple devices	It can graph data of up to 4pcs devices simultaneously.	
Display different units / ranges	Different units (eg: force and torque) / ranges (eg: 5N and 5000N) can be displayed on the same window by setting the Y1-Axis and Y2-Axis.	
Graph overlay	Up to 10 graphs can be overlaid for visual analysis.	
Trigger function	Data from multiple devices can be recorded automatically at the same time by setting up the START/STOP value.	
Area select function	Extract the desired part of the graph, then the new statistical value will be calculated.	
Average and total value display as graph	When overlay the graphs, the average and total value of all the graphs can be displayed as graph.	
Management of devices	Register each device by its serial No., and manage its name and calibration date, etc.	
Operation history tracking	Operation history can be recorded by log settings.	
Password function	To avoid unnecessary login, user ID and password is required when login.	

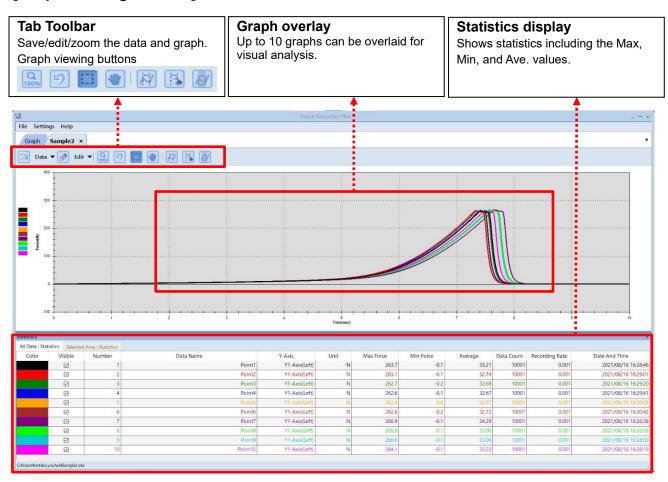


[Main window]

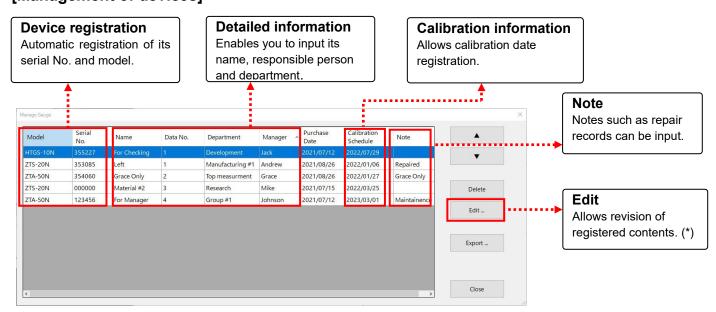




[Graph viewing window]



[Management of devices]



^{*}This button is displayed only administrator login.



[Main Functions]

Force-Time (torque-time) Graphing **Graph Analyzing** Simply press START/STOP buttons for recording. 1. Extract the desired part of the graph, and the new statistical value will be calculated. (Area select function) START STOP 2 . Adjust the starting position of the graph for easy comparison (Start/Stop buttons) by using shift graph line function. It is easy to see force transitions as the real-time values and graphing are displayed on the same window. (Graphing image) (Shift graph line) Data from multiple devices can be recorded automatically according to the set value. (Trigger function) * e.g. The software will start recoding when force reaches 1N, and stop after 10 sec. **Output and Print Graph Viewing** 1. You can zoom in/out or scroll easily to check the details of 1. Print the graph and statistical values in report format. the recorded graph. (Graph scaling function) $2\,.\,$ Select and enlarge the desired area of graph and paste to the clipboard. 3. Recorded data can be converted into CSV format. (Graph viewing buttons) (CSV file converting function) Up to 10 graphs can be overlaid for visual analysis. (Graph overlay function)



Force Recorder Series Main Functions Comparison				
Model	Light	Standard	Professional	Plus
Feature	Graphing only	With editing functions	Force- displacement graphing	Multiple graphing
Graphing	Force-time	Force-time	Force-time / displacement	Force-time
Data transferring speed (Max)	2000 data/sec	2000 data/sec	2000 data/sec	1000 data/sec
Recording data point (Max)	7.2 million	7.2 million	7.2 million	0.3 million
Displacement output	N/A	N/A	√	N/A
Graph overlaying	N/A	√ (Max 5)	√ (Max 5)	√ ((Max 10)
Trigger function	N/A	\checkmark	√	$\sqrt{}$
Point marking	N/A	\checkmark	√	N/A
Border line function	N/A	\checkmark	√	N/A
Capture function	N/A	\checkmark	√	$\sqrt{}$
Graph scaling	√ (Automatic)	√ (Automatic)	√ (Automatic)	(Automatic and Manual)
Statistics output	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$
Comment	$\sqrt{}$	\checkmark	\checkmark	N/A
Print	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$
CSV file converting	V	√	√	V
Preview saving (PDF/Word/Excel)	V	V	V	V
Force gauge setting	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$
Operation history tracking	N/A	N/A	N/A	√
Password	N/A	N/A	N/A	$\sqrt{}$

^{*} Refer to the specification of each product for details.

Specifications		
Model	Force Recorder Plus	
Data transferring speed (Max)	1000 data/sec	
Resolution	Determined by force gauge's capacity. (Signed 4-digit) (eg: 0.001N when using 5N range.)	
Output	CSV format conversion, Printing	
Languages	Japanese, English	
Compatible devices	Digital Force-gauges: ZTS/ZTA series Digital Torque-gauges: HTGS/HTGA series, DTXS/DTXA series Desktop Amplifier: FA Plus2 series Sensor Interchangeable Amplifier: eZT、eFA Plus2	
Required cable	Supplied USB cable for force gauge	

^{*} USB hub is required when using multiple devices simultaneously.

Connect Devices NO.	USB hub type	Notes
1~2 pcs	Self-powered type or bus-powered type	Supply current per port:
3~4 pcs	Bus-powered type	250mA or higher



Operating Environment		
Model	Force Recorder Plus	
Operating	Windows 0 4/40/44	
environment	Windows 8.1/10/11	
Hardware	CPU: 1GHz or higher	
	Memory: 4GB or more	
	Hard disk: 10GB (Data Storage) or larger	
Platform	.NET Framework4.8 or higher	
Image size	Resolution 1920x1080 pixel or greater (*1)	

^{*1} For Windows10, you may need to adjust the resolution if it is not displayed properly.
*2 We do not guarantee operation in USB 3.0.

Compatible Devices For Force-Time (Torque-Time) graph				
Digital Force Gauge	Sensor Interchangeable Amplifier Desk Type Load Cell Ampl			
ZTS/ZTA series	eZ	ZT	FA Plus2/eFA Plus2	
			OLO COLO COLO COLO COLO COLO COLO COLO	
	For Torque-Time graph			
Handy Type Torque	Handy Type Torque Gauge		Screw Cap Torque Tester	
HTGS/HTGA ser	HTGS/HTGA series		DTXS/DTXA series	



Related Products		
Motorized Test Stand MX/MX2/MH/MH2/EMX series	Optional Cable CB-528	
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.	

[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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