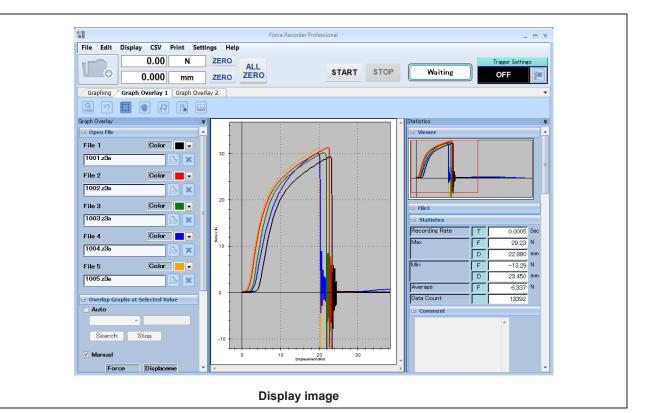


# Force-Displacement Graphing Software Force Recorder Professional

- Data can be transmitted to plot the force-displacement (travel amount) graph easily.
- It is ideal for tactile analysis due to force transition is based on displacement.
- Graph can be drawn accurately and precisely due to the high sampling rate. (Mx. 2000Hz)
- You can switch between force-time and force-displacement based on your needs.



Force Recorder Professional-11-23-Subject to change without notice.

Basic function of Force Recorder Software		
Graph scaling function	The graph can be zoomed in/out, or scroll to check the details.	
Statistical calculation	Maxmimum/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.	
Saving in CSV Format	Recorded data can be saved as CSV format.	
Preview export function	Graph image and statistic data can be exported to various format. (e.g. Word, Excel and PDF)	
Force gauge setting	The setting of force gauge can be changed via software.	

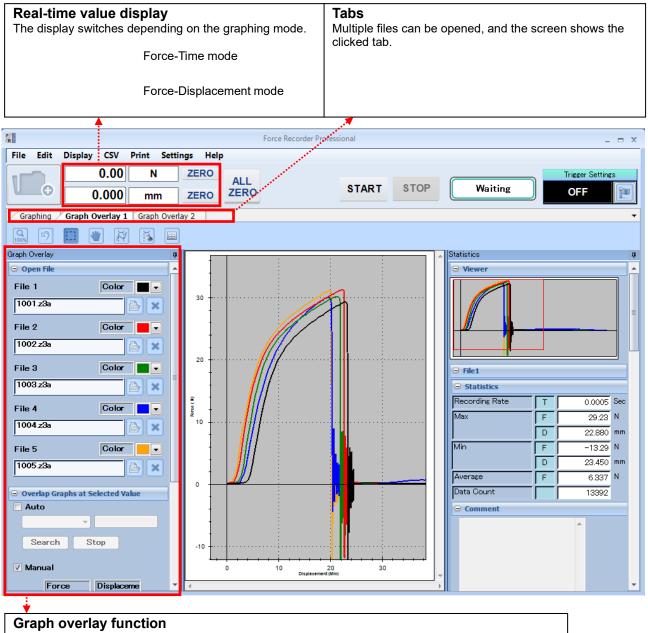
### Hans Schmidt & Co GmbH Schichtstr. 16

84464 Waldkraiburg Germany

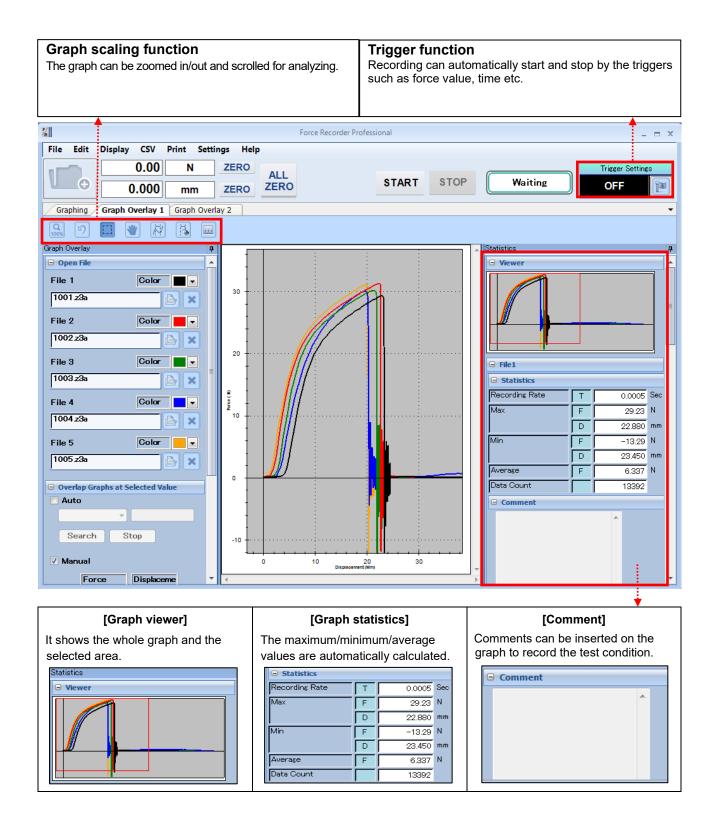
Phone: int. + 49 / (0)8638 / 9410-0 Fax: int. + 49 / (0)8638 / 4825

Additional functions of Force Recorder Professional		
Display of displacement	Travel distance of force gague can be recorded and displayed on software.	
Graph overlay function	Graphs can be overlaid for easy comparison. (up to 5 graphs can be overlaid at once)	
Trigger function	Recording can automatically start and stopp according to force value, displacement, and external signals.	
Add notes function	Comments can be placed anywhere on the graph.	
Border line function	Lines can be drawn on the recorded graph at specific force/time as a judgement line.	
Area select function	The statistics within the selected area are automatically calculated.	

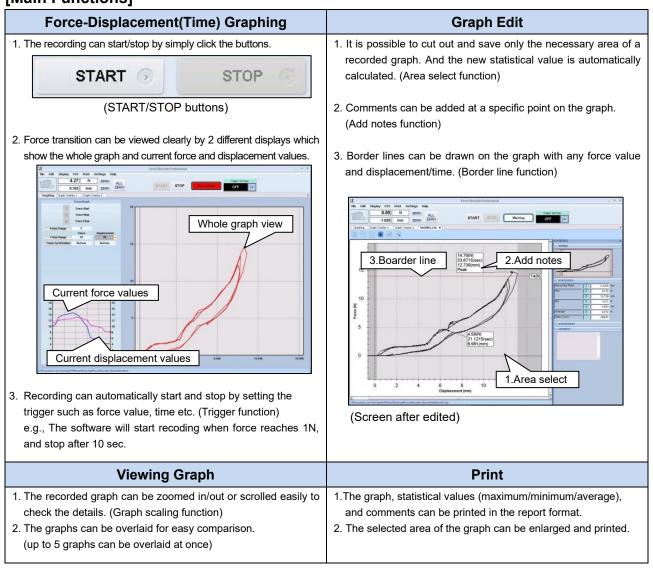
# [Software Display]

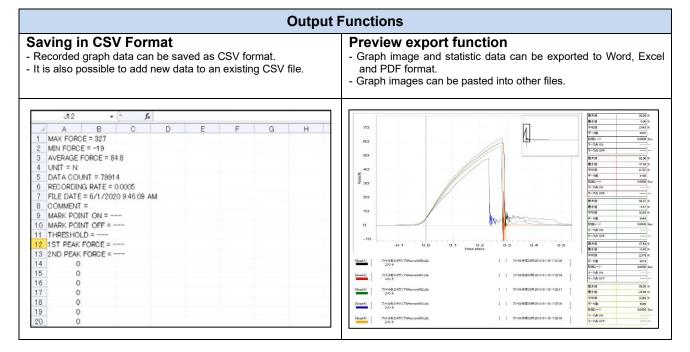


The graphs can be overlaid in Graph Overlay Tab. File names and graph colors are listed, and reference points can be set for easy comparison of graphs.



## [Main Functions]





	Main Function	ns 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		
Add notes function	N/A		
Border line function	N/A		
Area select function	N/A		
Graph scaling	$\checkmark$		$\checkmark$
Statistical calculation	$\checkmark$		$\checkmark$
Comment function	$\checkmark$		$\checkmark$
Print			$\checkmark$
Saving in CSV Format	$\checkmark$		$\checkmark$
Preview export function (PDF/Word/Excel)	$\checkmark$	$\checkmark$	$\checkmark$
Force gauge setting			

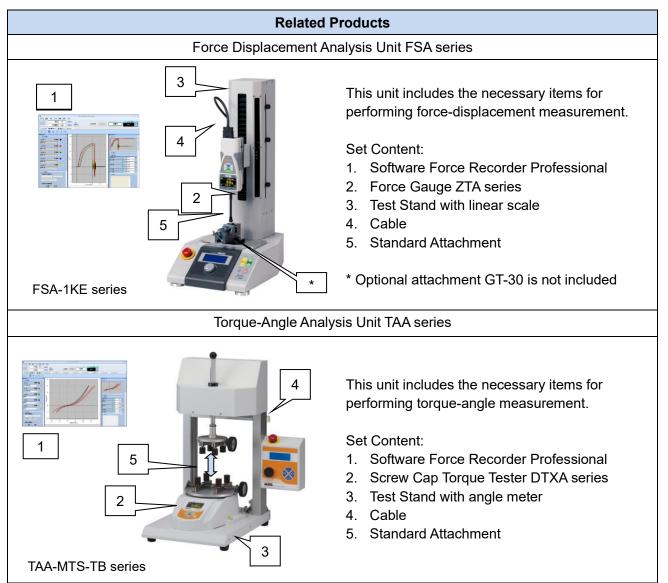
\* For further information of Light and Standard version, refer to Force Recorder Light and Standard specification.

Specification	
Model	Force Recorder Professional
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 Framework4.8 later
Image size	Resolution 1024*768 pixel more
Compatible devices	ZTA series, HTGA series, DTXA series, eZT, FA Plus2/eFA Plus2 (Available for drawing both force-time and force-displacement graph.) *Required to be connected with a linear scale/an angle meter kit or a build-in linear scale (-FA option) by the designated cable.
	ZTS series, HTGS series, DTXS series (Available only for drawing force-time graph.)

[Gauges available for drawing	g force-displacement graph]
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Force-Displacement and Force-Time graph			
Digital Force Gauge <b>ZTA series</b>	Sensor Interchangeable Amplifier eZT		Desk Type Load Cell Amplifier FA Plus2/eFA Plus2
For Torque-Angle and Torque-Time graph			
Handy Type Torque Gauge		Screw Cap Torque Tester	
HTGA series		DTXA series	
			and the second sec

\* To be able to draw a force-displacement/torque-angle graph, a linear scale/angle meter or a build-in test stand is required.



\* Refer to specifications of the individual product for details.

**[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.