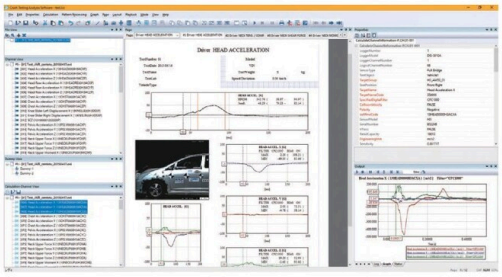
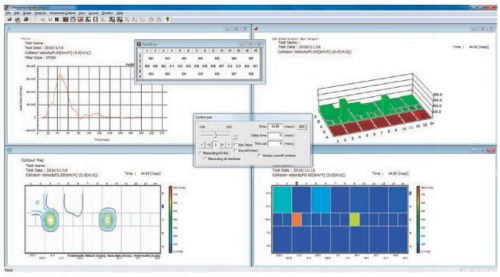
Crash Testing Software



Crash Test Analysis Software



Multi-segment Barrier Load Analysis Software

Crash Test Analysis Software

This software can perform analysis processing and output results based on laws/regulations and crash test standards such as NCAP, using crash test data recorded by a crash test measurement system (DIS Series).

Multi-segment Barrier Load Analysis Software

This performs analysis processing of barrier load data recorded from full-wrap rigid barrier crash tests using multi-segment barriers. A crash test measurement system (DIS Series) is used to record barrier load data, which is transmitted to a PC to perform analysis processing.

Crash Test Analysis Software Specifications

Main Specifications	
Programmed Processing Mode	
	Applies preset dummy data calculations and programmed processing patterns based on specific forms of impact and dummies to analysis, calculations, and the report output formats.
Nonprogrammed Processing Mode	
	Performs or creates analyses, calculations, and graph layouts
Processing/Calculation	Apply a digital filter (CFC1000・CFC600・CFC180・CFC60 that complies with the SAE-J211), calculate injury values (HIC, Nij, 3ms, VC, TI, duration, etc.), invert polarity, convert units, perform arithmetic operations between channels, integrate and differentiate, calculate statistics, remove bias.
Graphing	Display T-Y graphs, X-Y graphs, and graphs with numerical values, high-speed camera movies, or text.
Options (Can be selected and added as needed.)	
Dummy Data Calculation	H3 AM50・AF05, ES-2, ES-2re, SID2s, WorldSID AM50, BioRID2, Q series etc.
Programmed Processing Pattern	
	Laws and regulations related to various types of crash tests (frontal impact, frontal impact: ODB, side impact, side pole impact, rear impact) in Japan, the US, and the EU as well as JNCAP, Euro NCAP, etc.
Operating Environment	
OS	Windows®10, Windows®11
	English, 32/64 bits support (64 bits only for Windows 11)
CPU	Intel Core i3-560 or advanced
Memory	16 GB or more
Display	1280 × 1024 pixels, full color or more
USB	One open port (2.0 or higher)
Printer	Windows®-compatible printer (supporting A4 output)

*Dummy data calculations and programmed processing patterns are options sold separately from systems.
Options can be selected and added at the time of initial deployment or as needed thereafter.
In addition, we also produce processing patterns in accordance with customer needs.
*Specifications and design are subject to change without notice.
*Please contact us for information on product warranties.

Multi-segment Barrier Load Data Analysis Software Specifications

Hardware	
Data Logger	Data Logger for Crash Test (DIS series), Control software
PC	
Memory	For the 32-bit OS, 2 GB or more.
	For the 64-bit OS, 4 GB or more.
Display	XGA (1024 × 768 pixels), 256 color or more
Print	Windows® compatible (A4 cut paper)
OS	Windows®10, Windows®11
Software	
Engineering Value Conversion	
	Amplifier range, calibration value, conversion to engineering value using calibration coefficient
Filtering	CFC 60, CFC 180, CFC 600, and CFC 1000, conforming to SAE-J211
Channel Assignment	Data logging channel numbers assigned to multi-divisional barrier grid displayed
Waveform Monitoring	Displays Y-Time waveform monitoring graph.
Force Distribution Charts	Displays the magnitude of the force data on the barrier grid as a colored distribution map.
Force Contour Charts	Displays the force data on the barrier grids as a contour map.
Force Bar Charts	Displays the force data on the barrier grid as a 3-D bar chart map
Force Displacement Charts	
	Displays the displacement calculated from the barrier force and car-body acceleration as an F-S curve.
Force Height Displacement Chart	
	Displays the displacement calculated from the force center height and car-body as an AHOF-S curve.
Video Display	Displays video data in formats of AVI (Motion JPEG AVI).
Control Pad	Controls the graph display and video playback.
ASCII Conversion Output	Saves time series force data (Engineering value, filtered value) as a CSV file
Evaluation Indexes	VNT & HNT, VSI & HSI, AHOF 400, KW 400, RHA (RH)
	*Some specifications are optional.

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