

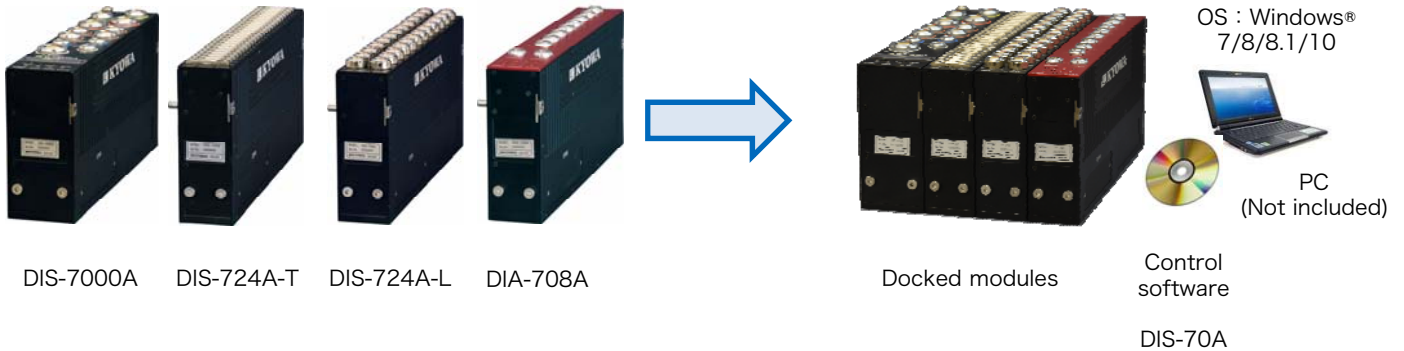
Data acquisition system for crash test DIS-7000 series **NEW**



On-vehicle system
Airbag timer modules are also connectable.

- Compact and lightweight
(168 channels: 290 × 100 × 210 mm, approx. 9 kg)
- Impact resistance: 100 G
- Modularization structure
- Synchronous measuring channels up to 1056
(Up to 999 channels when using DIS-70A)
- Outputs ignition current based on the pre-set delay time.
(DIA-708A)

System example

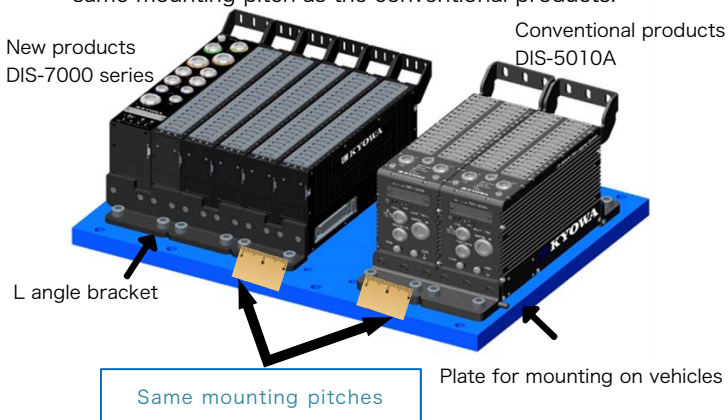


DIS-7000A: Control module for controlling DIS-7000 series.
 DIS-724A-T: Signal conditioner module (square connector, 24 channels) for measuring strain and voltage.
 DIS-724A-L: Signal conditioner module (round connector, 24 channels) for measuring strain and voltage.
 DIA-708A: Airbag timer module (8 channels) for outputting ignition current.

Note 1) The number of modules is up to 48 (including up to four DIS-7000A modules).
 Single DIS-7000A connects up to 15 modules (DIS-724A-T/-L and DIA-708A).

Interchangeable with the conventional plates

Capable of using the conventional plates for mounting on vehicles by selecting the L angle brackets which have the same mounting pitch as the conventional products.



Example of use



Offset crash test

Common main specifications (DIS-7000A, DIS-724A, DIA-708A)

■ Operating Environment Operating Temperature 0 to 50°C Operating Humidity 20 to 80%RH (Non-condensing) Storage Temperature -10 to 60°C Storage Humidity 10 to 90%RH (Non-condensing) Impact Resistant 980.7 m/s ² (100G), 10 ms half-sine X-, Y-, Z-axis directions, each 1000 times		■ Trigger Mode Ring buffer mode, recorder mode Type Switch trigger, software trigger, analog trigger *Trigger synchronization of multiple models is available.	
■ Interfaces Conforming to 10BASE-T/100BASE-TX ■ A/D Converters 16 bits		■ Built-in Batteries Type Li-ion battery Continuous Operation Approx. 30 minutes (Operating temperature: 0 to 40°C, non-degradation) ■ Power Supply 15 to 28 VDC (Typical 24 VDC)	

Other main specifications

DIS-7000A ■ Digital Input Total 32 (16 ×2), no-voltage contact ■ Sampling Frequencies 100, 200, 500, 1k, 2k, 5k, 10k, 20k, 50k, 100k Hz ■ Data Recording Approx. 80 minutes (At 100k Hz) ■ Trigger Distribution output Number of Channels 4 ■ Check Functions Memory, battery, trigger ■ Buzzers Built-in alarm buzzer ■ Appearance Dimensions 45 (W) × 100(H) × 210(D) mm (Excluding protrusions) Weight Approx. 1.1 kg	
DIS-724A ■ Analog Input Measuring Targets Strain, voltage Number of Channels 24 Connectors DIS-724A-T: 3RT01-RW7F(TAJIMI made) DIS-724A-L: ECG.1B.307(LEMO made) Input Voltage Within ±20 V Gain ×0.1 to 0.9, ×1 to 5000 Gain Accuracy Within ±0.2%FS Nonlinearity Within ±0.1%FS Bridge Excitation 10, 5, and 2 VDC Each channel ON/OFF is switchable. Applicable Bridge Resistance 120 to 5kΩ (Half bridge system, full bridge system) ■ Low-pass Filter 5th order Butterworth Cutoff Frequencies 50, 100, 200, 400, 1k, 2k, 4k, 10k, 20k Hz Amplitude Ratio Within -3 ±1 dB Attenuation Within (-30±3) dB/oct. ■ Sampling Frequencies 100, 200, 500, 1k, 2k, 5k, 10k, 20k, 50k, 100k Hz ■ Data Recording Approx. 80 minutes (At 100k Hz) ■ Check Functions Memory, battery, trigger, input terminal resistance, open circuit, bridge excitation, sensor, gain ■ TEDS Functions Compatible with IEEE1451.4 ■ Appearance Dimensions 35 (W) × 100(H) × 210(D) mm (Excluding protrusions) Weight Approx. 1.1 kg	

DIA-708A ■ Ignition Current Number of Channels 8 Connectors DIA-708A: ECP.0S.302 (LEMO made) Plug: FFA.0S.302 (LEMO made) Output Current Setting range: 0.5 to 3.0A and OFF (Selectable with 0.1 A step) Accuracy: Within ±0.05A Maximum Output Voltage Approx. 18 V Load Resistance 1 to 9 Ω (Including cable resistance value to the inflator) Output Time Setting range: 0.2 to 5 ms Accuracy: Within 0.1ms Delay Time Setting range: 0.1 to 9999 ms ■ Recording Current Waveform Measuring Accuracy Within ±3%FS (FS=5.0 A) ■ Sampling Frequencies 10k, 20k, 50k, 100k Hz ■ Data Recording Approx. 40 minutes (At 100k Hz) ■ Check Functions Memory, battery, trigger, current output ■ Safety Functions Load Resistance Measurement Apply weak current to the inflator and measure the resistance. SAFETY Function In a state with the SAFETY plug inserted to the SAFETY connector, no trigger signal can be input. In addition, the current output terminals are shorted in the DIA-708A so as not to flow the accidental current to the inflator. ■ Appearance Dimensions 35 (W) × 100(H) × 210(D) mm (Excluding protrusions) Weight Approx. 1.0kg	
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Safety Precautions

Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

• Specifications are subject to change without notice for improvement.



Manufacturer's Representative