OUR HARDWARE

Acellent data acquisition hardware is engineered for structural health monitoring applications. Our state-of-the-art hardware supports application such as: large area sensor network, localized small areas, and impact monitoring or a combination of both passive impact monitoring and active damage detection. Our compact, lightweight hardware comes with a simple I/O interface, and can be used in a large variety of applications such as: composite damage detection, crack detection, corrosion monitoring, and much more.

DIAGNOSTIC HARDWARE

SCANGENIE III

ScanGenie III is widely used for large area and hot spot monitoring. It features temperature sensing while coming in either 64 or 128 channels where it is able to monitor structural integrity via transmission and pulse echo modes.

SCANGENIE III INDUSTRIAL

The ScanGenie III Industrial is engineered for reliable on-board functionality using up to 128 sensors. The ScanGenie III Industrial's stainless steel enclosure can be environmentally sealed for field applications.

PASSIVE ACTIVE HARDWARE

The DARTTS Hardware is a compact and lightweight passive-active hardware that powers the sensor system and feeds data back to the SHM-DARTTS software in real-time. In combination with the software and SMART Layer sensors, this system integrates impact detection with active damage scanning and trajectory estimation.
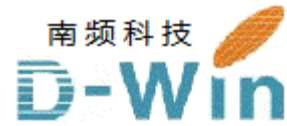
SCANGENIE MINI

ScanGenie Mini is purpose-built for "active damage detection. It features a very lightweight, compact design that can support up to 32 sensors. It can also be customized to interface as an onboard active system.

HARDWARE SPECIFICATIONS

	ScanGenie III	ScanGenie III Industrial	ScanGenie Mini	Passive Active Hardware
Pitch-catch Mode	✔	✔	✔	✔
Pulse-echo Mode	✔	✔	✔	✔
Impact Detection				✔
Self-diagnosis Ability	✔	✔	✔	✔
Sensor-diagnosis Ability	✔	✔	✔	✔
Channels	Up to 128	Up to 128	Up to 32	Up to 32
Temperature Measurement	- 55 to 150°C			
Adjustable Sampling Rate	6, 12, 24, 48 MS/s			
Waveform Generation	10 kHz - 700 kHz			
Actuation Signal Amplitude (P-P)	120V	120V	90V	90V
Input Voltage (VDC)	12-18	12-18	12-36	12-36
On Board		✔	✔	✔
Off Board	✔	✔	✔	
Battery Powered	✔		✔	

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