

Impact Monitoring Package

Accellent Technologies, Inc. provides complete Structural Health Monitoring (SHM) solutions with our innovative technology. We have designed a passive impact monitoring system for engineers and researchers who are working on methods for monitoring impacts on structures. Accellent's Impact Monitoring System has no equal for detecting impact events.

Features of the System

- Continuous real-time impact detection
- Graphical display with audio announcement of impact occurrences
- Three levels of impact energy classification:
 - light, medium & severe
- Ethernet interface that allows wired and wireless data transmission

Application Areas

- Composite rocket motor casings
- Thermal Protection System (TPS) panels for space vehicles
- Unmanned Aerial Vehicles (UAVs)
- Pipelines



Impact Monitoring Package Includes -

Components	Product	Description
Sensor	SMART Layer®	16 single sensor layers
Hardware	IMGenie®	Includes all required cables
Software	AIM®	Version 1.1

Features of AIM® Software

- Estimation of impact force & location in real-time
- Easily configurable sensor location & channel set-up
- Ability to control remotely over long-distances via Internet & wireless data transmission
- Intuitive impact curve and data display capability
- Database of impact history



Features of the IMGenie®

- Light-weight (~ 3lbs)
- Battery-powered
- 64 channel parallel data acquisition; up to 40 KS/s per channel; 12-bit resolution
- Two working modes: data logger mode and real-time mode
- Ethernet interface that allows multiple systems to connect together

Features of the Sensors

- Ease of installation
- Durability & reliability under variable environments
- Adaptability to any shape



Single Sensor Layer

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