

[\[HIT DETECTION SYSTEMS \]](#)

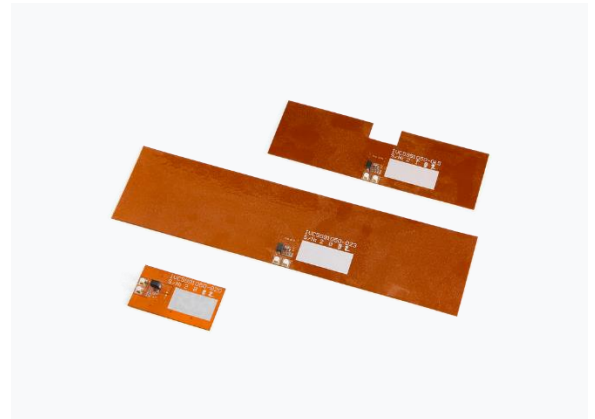
Hit Detection Systems

High-Speed Impact Detection

[\[PRODUCT OVERVIEW \]](#)

Hit Detection Systems

Invocon provides multiple hit detection systems capable of detecting and reporting high-speed impacts on rockets, spacecraft, and other aerospace structures. These systems have been used to detect high-speed projectile impacts. Invocon has developed multiple impact detection technologies using wire-break, hit panel, and acoustic emission methods, with wired and wireless configurations available.

[\[CAPABILITIES \]](#)

Features & Applications

Key Features

◆ Multiple Detection Method Technologies

Invocon offers wire-break, hit panel, and acoustic emission impact detection methods, enabling selection of the most appropriate technology for each target structure and threat type.

◆ High-Speed Projectile Detection

Designed and flight-proven for detecting and characterizing the impacts of high-speed projectiles on rocket and spacecraft structures.

◆ iPCMe Capture Link™ Integration

Compatible with Invocon's iPCMe Capture Link™ interface for bandwidth sharing, enabling simultaneous transmission of impact data alongside other telemetry on the same PCM stream.

Typical Applications

◆ Hit Position Evaluation

Detects and records hits on target vehicles during intercept testing.

◆ Spacecraft Debris Impact Detection

Monitors rocket and space structure panels for micro-meteoroid or orbital debris impacts.

◆ Range Safety Impact Verification

Provides real-time hit detection data to range safety systems during live-fire test events.

Key Specifications

SPECIFICATION	VALUE
ELECTRICAL	
Detection Methods	Wire-break, hit panel, acoustic emission
Applications	Projectile impact detection on rockets and space structures
Integration	Compatible with iPCMe Capture Link™ interface for bandwidth sharing
MECHANICAL	
Size (L × W × H)	
Weight	
Case Material	
ENVIRONMENTAL	
Operating Temperature	