ABOUT US

Instantly Identify Transport-Induced Failures with Data

Tailored Monitoring Solutions for Your Unique Logistics Challenges

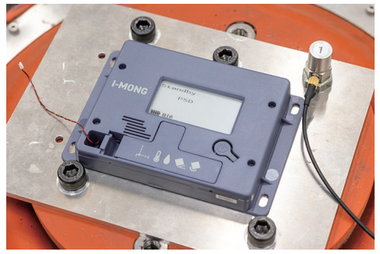


IOTek develops transport quality monitoring tools for semiconductor manufacturing equipment, precision instruments, and other high-value goods.
Our sensors monitor shock, vibration, temperature, humidity, and tilt throughout transportation.
Combined with on-device (edge) real-time Power Spectral Density (PSD) analysis and Damage Boundary Curve (DBC) testing, our solution helps detect risks early, optimize transportation conditions and packaging design, and rapidly identify the root cause of transport-induced failures.

SERVICE

Business Activities

- Development and Sales
  Transport quality monitoring tools and shock loggers
- Measurement and Analysis
  Shock, vibration, temperature, humidity, and tilt evaluation
- Consulting and Tailored Development
  Solutions tailored to cargo, packaging, transport routes, and security requirements



Main Products

■ **I-MONG** **Real-time transport quality monitoring**
Measures high-and low-G acceleration, temperature, humidity, and tilt, with edge processing and IoT.

■ **I-MONG_H** **Deployable in High-Security Facilities**
An air-gapped model designed for delivery to facilities where wireless and other communication methods are restricted.

■ **ACC-PD Series** **Shock Logger Series Featuring Compact, Long-Life Batteries**
ACC-PD200G is designed for high-G, high-frequency detection, while ACC-PD16G is optimized for low-G, high-precision detection. Both feature a built-in bandwidth filter.

OUR STRENGTH

01	Data-Driven Improvement	Real-time data enables risk detection, faster accident analysis, and the standardization of packaging, loading, and transport conditions.
02	Accurate physical measurement	Our expertise lies in measuring physical quantities—such as shock, vibration, temperature, humidity, and strain—while incorporating ISO/IEC 17025-compliant measurement uncertainty principles.
03	Edge Computing and IoT	We excel at integrating on-device data processing algorithms and IoT-enabled real-time communication, enabling computation of PSD, DBC, condensation risks, and temperature excursion timelines directly on the hardware.
04	Development capabilities	We specialize in hardware and software development, creating innovative products and custom solutions powered by the latest technologies. Our expertise is in sensor data processing and communication technologies.

COMPANY

IOTek G.K.

CORPORATE WEBSITE https://www.iotek.jp/

Representative	Yukio Aizawa, CEO
Established	March 24, 2022
Capital	3 million yen

IOTek

OUR PRODUCTS

I-MONG

BLE or QR codes I/F, Edge Computing, IoT-enabled

Detects and logs acceleration (High/Low-G), temperature, humidity, and tilt. Having three modes: real-time Monitoring, analytical Logging, and Confirmation for quick testing.
Via BLE and a dedicated Android app, users can easily configure settings and input cargo/route info. Data and cargo details can be downloaded via BLE or by scanning a QR code on the e-paper display, and exported as CSV files linked to the Android device's GPS data.



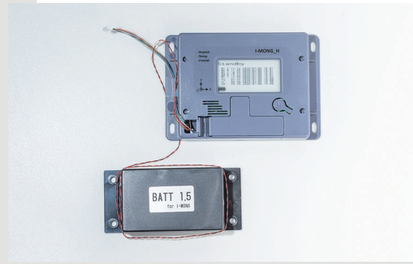
<Key Features>

- Automatic Switching Between High-G and Low-G Modes
- Shock range ±1.5G to ±200G
- Temperature: -20°C to 60°C
- Humidity: 10 to 90% RH
- Tilt: ±180°
- BLE 5.4 connectivity
- Three operating modes
- PSD Estimation and DBC Testing
- Generate and Display a QR Code on an E-Paper Display
- By Android app configuration
- External power support
- Calibration support available

I-MONG_H

Air-Gapped Logger for High-Security Facilities

Designed for secure delivery environments where wireless communication, external network connections, and removal of devices from the delivery area are prohibited. The built-in E-Paper display enables visual verification of transportation quality by displaying: Top 5 Shocks, Max/Min Temp, Max/Min Humid. Displayed information remains visible even after the battery is removed. No network connection is required for on-site verification. Dedicated Windows software and a proprietary cable are required for device configuration, data download, and detailed analysis.



<Key Features>

- Enables visual verification of transportation quality
- Optimized for low-G shock monitoring
- Continuous operation for over six months with an external power supply
- Fast temperature and humidity response (within 1 minute)
- E-Paper display retains all information even after battery removal
- External power support

ACC-PD SERIES **Compact Shock Logger available in tight spaces**

The ACC-PD series is a shock logger designed to fit within the size of two AA batteries, enabling long-duration operation even in confined spaces. Choose the ACC-PD200G for high-impact events or the ACC-PD16G for precise measurement of lower acceleration affecting delicate products. Both models are compact, lightweight, and designed for long-term transport monitoring.

ACC-PD200G **For General Equipment**



- Measurement range: ±10G to ±200G
- MAX Sampling frequency: 6.4kHz
- Accuracy: ±5%
- Peak-above-threshold recording method
- ±X, ±Y, ±Z, and Resultant value
- By Android app configuration
- Dimensions: 36.5 × 73 × 25mm
- Calibration support available

ACC-PD16G **For Semiconductor Equipment**



- Measurement range: ±1.5G to ±16G
- Resolution: 0.01G
- Accuracy: ±5%
- Peak-above-threshold recording method
- ±X, ±Y, ±Z, and Resultant value
- By Android app configuration
- Dimensions: 36.5 × 73 × 25mm
- Calibration support available

MEASUREMENT & CALIBRATION SUPPORT

IOTek supports calibration for its monitoring products and provides measurement consulting based on scientific principles and technical standards. Our solutions help customers evaluate packaging, identify shock and vibration risks, and investigate transport incidents using objective data. The Bluetooth module used in our products supports major regional requirements, including NCC for Taiwan, FCC for the United States, CE for Europe, KCC for Korea, and MIC/TELEC for Japan.