K-INNOVATIVE PRODUCT

INFINITY INNOVATION

ENITT

Disaster Safety AI Solutions

eDAS

DISTRIBUTED ACOUSTIC SENSING

The third eye that predicts the dangers created by fiber optic distribution sensors and AI and big data technologies

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ENITT

e-DAS
DISTRIBUTED ACOUSTIC SENSING

The center of the Disaster Safety Solutions

It is a disaster safety AI solution that monitors abnormalities in real time by continuously measuring acoustic vibration and analyzing collected data in real time by installing fiber distribution sensors in measurement sections ranging from several kilometers to tens of kilometers.

Product Specifications

Distance Range	50km, 100km
Channel Option	4ch, 1ch
Position Resolution	5m, 10m
Data Accuracy	±1m
Minimum Sampling Rate	5kHz, 10kHz
Performance Authentication	IEC 61757-3-2
Operating Temperature	0℃~ 50℃

* Product specifications are subject to change depending on purpose and environment.

Operating System Configuration

The more points connect to lines and lines to faces, the safer we are.
It is ENITT disaster safety management solution e-DAS that is responsible for safety on the road and in the city.

Item	Function
Rack	19" Rack 42U
DAQ Unit	DAS Signal data acquisition, analysis, and processing
Storage	DAS Signal data storage
Analytics Server	DAS Signal data deep learning analysis
Visualization Server	DAS Visualization of analytics information
UPS	Uninterruptible power supply
L2 Switch	L2 Network Switch
KVM	KVM for server

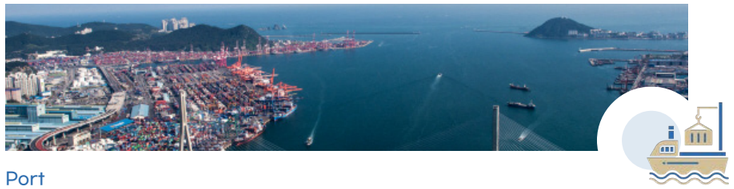
* System configuration may be changed according to purpose and environment.

Application Field

Plant
Pipe strain, Cracks,
Abnormal vibration

Railway
Detection of vehicle position, Speed,
Rail breakage, and Abnormal events

Bridge
Structure deformation

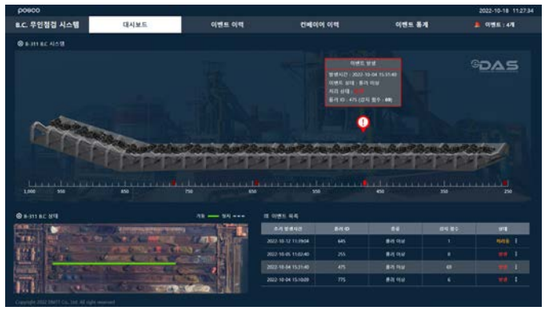


Port
Deformation, Cracking, Abnormal vibration

Crane · Girder
Deformation, Abnormal vibration

Application Example

This is a real example of ENITT e-DAS implementation.

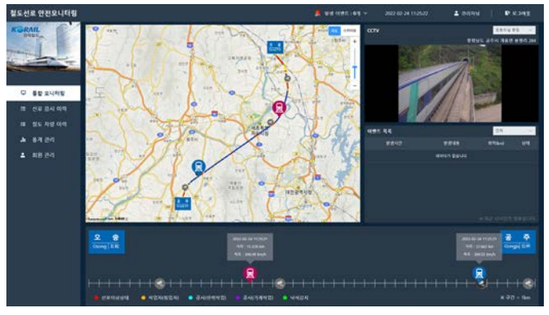


POSCO Belt Conveyor Idle Roller Monitoring System

This is a screen of the belt conveyor safety management monitoring system installed at POSCO Gwangyang Steel Works. The optical cable installed on the belt conveyor monitors abnormalities in the belt conveyor in real time, such as roller abnormality detection and raw material loading status.

Gwangju Metropolitan City Underground Common District Smart Management System

This is the screen of the safety management monitoring system installed in the Gwangju Underground Common District. Optical cables installed in the entire section of the common section monitor and diagnose abnormalities in the common section in real time, such as intrusion detection, breakage, and deformation, so that users can manage it more easily.



Railroad Safety Monitoring System

This is the screen of the railroad safety monitoring system installed on the 50km section of the Osong-Gongju high-speed rail in connection with KORAIL. Optical cables installed around railway tracks monitor and diagnose in real time abnormalities of railway tracks, such as train position, speed, and rail breakage.