



Al-based safety monitoring system with optical fiber acoustic distribution sensor



e-DTS Distributed Temperature Sensing

Al-based safety monitoring system with fiber-optic distributed temperature sensor



outed Temperature Sensing e-DSS Distributed Strain Sensing

Al-based safety monitoring system with fiber-optic distributed temperature sensor



e-FOAE Fiber Optic Acoustic Emission

Al-based Safety monitoring system with optical fiber acoustic emission sensor



DISASTER SAFETY MANAGEMENT SOLUTION WITH ENITT



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The center of the Disaster Safety Al Solution

e-DAS Distributed Acoustic Sensing

Al-based safety monitoring system with optical fiber acoustic distribution sensor



Monitoring of structural abnormalities through acoustic vibration data

The only product in Korea that can continuously measure long-distance

Real-time classification based on artificial intelligence deep learning Securing price competitiveness of 50% or less compared to other companies

100% guarantee constant operating rate, 24-hour fast maintenance

Application Field

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Product specification

Distance Range	50km	- Minimum Sampling Rate	10kHz (up to 10km fiber length)	
Channel Option	1	Milling Nate	20kHz (up to 5km fiber length)	
Position Resolution	1m	Performance Temperature	IEC 61757-3-2	
Data Accuracy	±1m	Operating	0℃~ 50℃	

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

e-DTS Distributed Temperature Sensing

Al-based safety monitoring system with fiber-optic distributed temperature sensor



Structure abnormality monitoring through temperature data Supports 1m unit spatial resolution

Immunity to electromagnetic noise by sensing method using optical fiber Real-time classification based on artificial intelligence deep learning

Fast 24-hour maintenance ensures 100% always-on operation











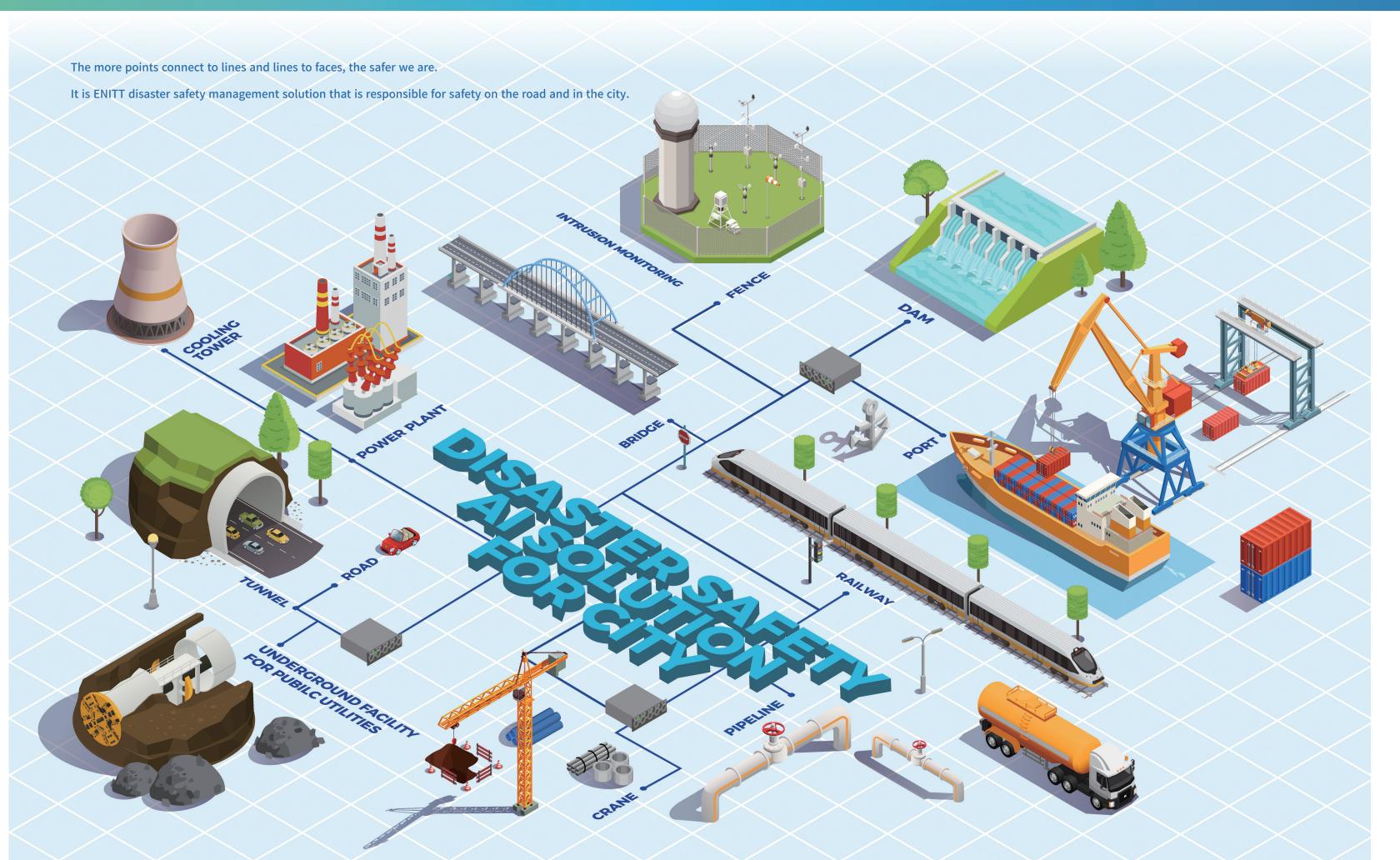


:-:	LNG				
Plant	LNG	Harbor	Crane	Power Cable	Submarin

Product specification

Distance Range	16km(MMF), 30km(SMF)	Temperature Accuracy	±1℃
Channel Option	8	Minimum Sampling Rate	20kHz (up to 5km fiber length)
Spatial Resolution	1m	Performance Authentication	IEC 61757-3-2
Temperature Resolution	-20℃~ 90℃ (Depending on sensing fiber coating material)	Operating Temperature	0°C~ 50°C

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



e-DSS Distributed Strain Sensing

Al-based safety monitoring system with high-precision temperature/strain sensor of optical fiber



Improving precision by fusion with LiDAR technology for the first time in Korea Monitoring of structural anomalies through high-resolution strain distribution measurement Continuous status monitoring possible without dead zone for all installed sections

Precise safety diagnosis possible due to high position resolution Real-time classification based on artificial intelligence deep learning

Fast 24-hour maintenance ensures 100% always-on operation

System construction and maintenance cost reduction by securing cost competitiveness

Application Field











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Product specification

Measurement Intervals	100mm	Data Update Time	10sec
Measuring Sensor Length	100m	Temperature Compensation Range	-20~80℃
Strain Measurement Range	±3,000με	Temperature Compensation Precision	±2
Strain Resolution	5με	Abnormal State Analysis Time Required	30sec

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

e-FOAE Fiber Optic Acoustic Emission

Al-based Safety monitoring system with optical fiber acoustic emission sensor



Non-electrical cable that does not require a separate power cable Simultaneous measurement of up to 16 channels

24/7 remote monitoring possible

Strong sensitivity that does not require an amplifier for external stimulus detection signals Capable of measuring up to 1km long distance

Real-time classification based on artificial intelligence deep learning

Fast 24-hour maintenance ensures 100% always-on operationdetection signals System construction and maintenance cost reduction by securing cost competitiveness

Application Field

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dusty	Pipe



Product specification Measurement Frequency Range 100~400kHz Number of Measurement Channels Sensor Operating Temperature -20~80°C 1000m Measuring Distance Sampling Speed

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