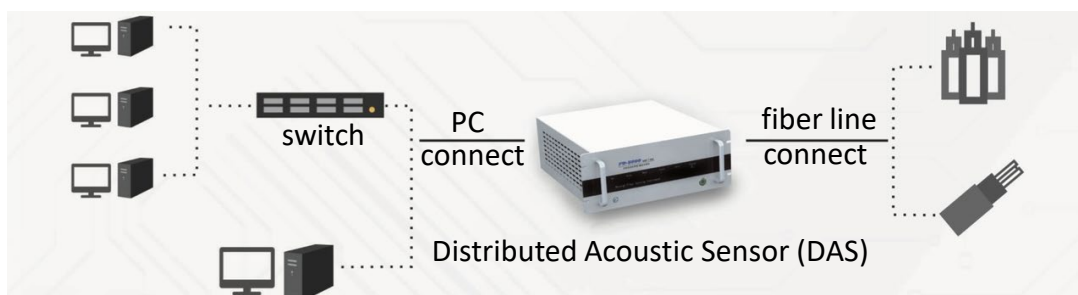


Distributed Acoustic Sensor



DAS FS-5100

The **Distributed Fiber Optic Acoustic and Vibration Analyzer** is a real-time, online, and continuous monitoring system based on coherent Rayleigh scattering and optical time-domain scattering principles. It can realize precise detection, identification, and accurate localization of vibration events with multiple vibration time stamps. The sensor cable, requiring no power, can provide safety warning for up to 100km, making it suitable for long range perimeter surveillance in large site such as borders, airports and other critical areas, and long-distance pipelines such as water pipelines and oil and gas pipelines.



Key Features

- Distributed measurement —— no blind spots. Vibration/acoustic signals at every point along the fibre can be monitored
- Event recognition accuracy rate of 98.84%
- Spatial positioning distance accuracy within 4m
- Response time within 3s
- Missing report rate of zero
- Long-distance automated monitoring —— large monitoring range
- Support remote access —— realizing unattended operation
- Online detection —— low average power consumption per unit distance

■ Specification

Model	FS-5100
Operating Distance	50km
Background Noise	<60dB@1kHz
Measurement Bandwidth	5K
Spatial Resolution	1m
Fiber Loss	2dB
General	
Built-in Channel	Single
Sensor Configuration	Single-ended
Sensing Fiber	ITU G.652, ITU G.657, ITU G.655
Dimension	555L*482.6W*178H(mm)

■ Application Scenario

Automatic monitoring of **borders, airport and other critical areas**



Automatic monitoring of **long-distance pipelines and wires**



Automatic monitoring of **oil and gas Wells**

