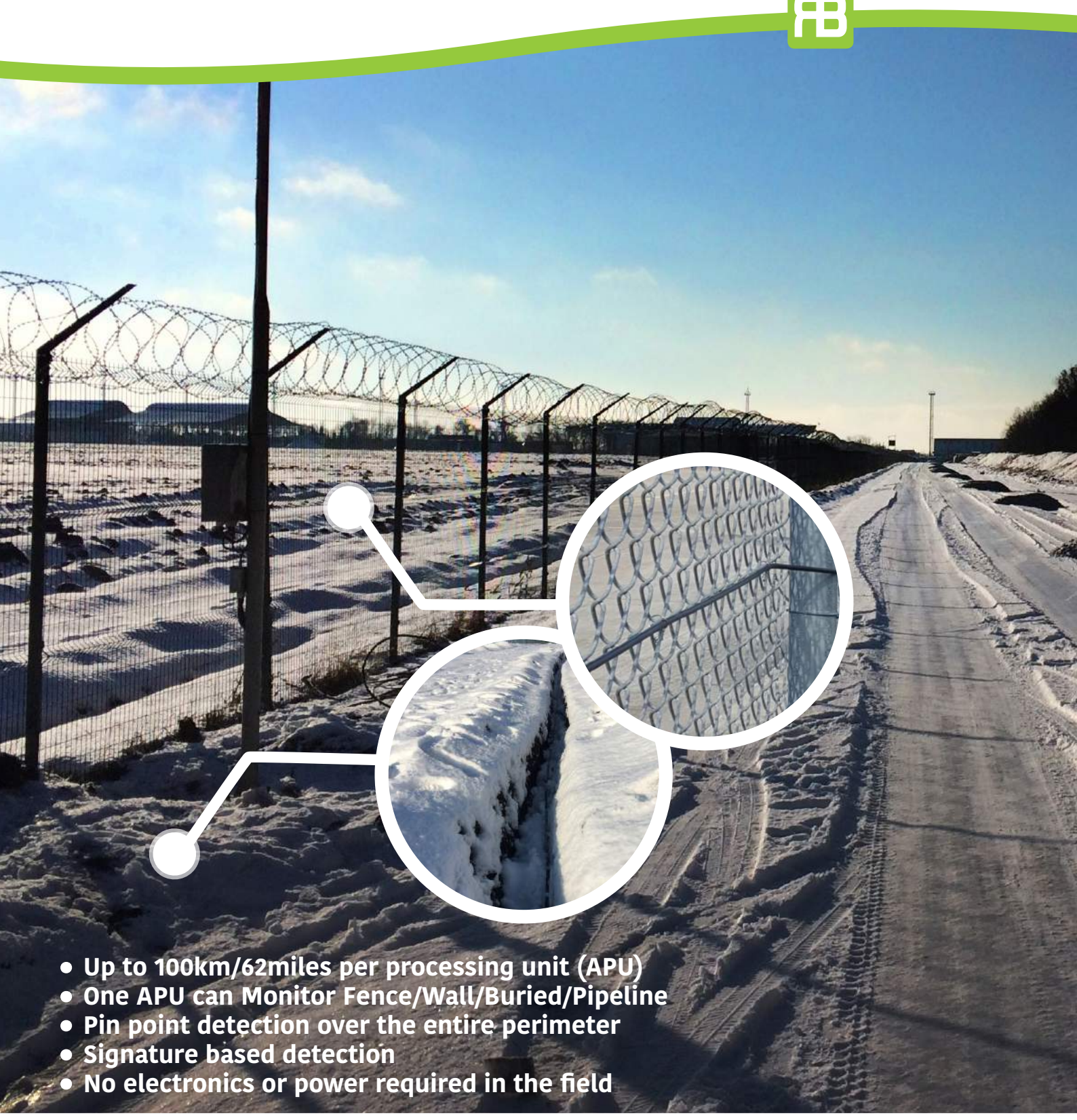
RAYSENSE

Fiber Optic Perimeter Security Sensor



- Up to 100km/62miles per processing unit (APU)
- One APU can Monitor Fence/Wall/Buried/Pipeline
- Pin point detection over the entire perimeter
- Signature based detection
- No electronics or power required in the field

RBtec
Perimeter Security Systems

Your security is our challenge



RAYSENSE

The Longest Fiber Optic Sensor Cable

The **RaySense** System is effective in the prevention of intrusions due to its unique ability to detect, locate and classify vibrations along the sensor cable in real time. Based on fiber-optic cable, the **RaySense** System is the most economically competitive technology currently available in the world for this application.
With the longest fiber optic monitoring capabilities in the market the **RaySense** provides 100% perimeter coverage for long range applications with no gaps between sensors, the cable is the sensor.
The system detects and locates intrusions based on signature data base to avoid any nuisance alarms.

The **RaySense** requires no power in the field and installation minimizes the need for trenching and expensive installation methods.
Deploying **RaySense** fiber optic intrusion detection system provides reliable perimeter security for up to 100 km/62 Miles through a single fiber-optic cable, detecting and locating within 3-6meters/10-20feet over the entire perimeter. Daisy-chaining additional controllers provide unlimited reach.

3 Configurations of The RaySense

- Fence/Walls – The sensor can be installed in a loop or straight line.
- Buried – Can be buried in the ground to detect any movement/digging above or under the cable.
- Combined – The same system can monitor fence and buried with the same controller.

System Layout

Advantages of RaySense Fiber Optic Sensor System

- Up to 100km/62miles per processing unit in loop configuration.
- Up to 50km/31miles per processing unit in straight line configuration.
- Within 3-6m/10-20ft resolution over the entire perimeter.
- Signature based detection.
- Can be used on the fence and underground with the same system.
- No electronics or power required in the field.
- IP based Remote control and monitoring - Software based zones.

Technical Specifications

- Alarm Processing Unit (APU)
- Dimensions: 5.25” x 16.5” x 22”
- Weight: 12kg/26lbs
- Power requirements: 80-100 W
- Number of channels: 1
- Maximum monitoring range: 100km/62miles
- Hardware platform: dedicated reprogrammable FPGA and DSP chips
- Communications output: XML via TCP/IP
- Calibration: automated

The RaySense Perimeter System Is the Ideal Solution for Protecting:

- Borders
- Borders
- Airports and Seaports
- Energy and Utility infrastructures
- Petroleum and petrochemical plants
- Military and Government sites

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