About

- Founded on January 2012
- Founders have extensive experience in seismic security systems
- Develop security solutions based on seismic technology
- Field proven systems for more than 3 years
Main Advantages of our solutions

- **Buried system** - invisible to the intruder
- **Reliable** - immune to environmental conditions - fog, rain, wind, temperature changes
- Doesn’t require line of sight
- **Ultra low power** - works on batteries
## Technology comparison

<table>
<thead>
<tr>
<th>Technology</th>
<th>Events classification</th>
<th>Digging detection</th>
<th>Low false alarm rate</th>
<th>Buried / Invisible</th>
<th>Immune to environmental conditions</th>
<th>Doesn’t require line of sight</th>
<th>Battery operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seismic</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Infra-red</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>V</td>
</tr>
<tr>
<td>Video motion detection</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Vibration fence</td>
<td>X</td>
<td>X</td>
<td>V</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Solutions Overview

- **Residential**
  - Low cost buried system with dry contact output

- **Remote sites**
  - Stand alone, battery operated buried system with SMS alerts

- **Perimeter system**
  - High end buried perimeter system, 6m alarm resolution

- **Military**
  - Wireless seismic sensor network
  - Sensor with GSM camera/modem

- **OEM**
  - Tailor made solutions
Residential solution

- Private house protection
  - Early detection
  - Buried system - doesn’t change garden appearance
  - Connects to any security alarm panel
Residential solution

System components

- Seismic sensors strings
- Extension cables
## Residential solution

### SensoGuard VS. Motion detectors

<table>
<thead>
<tr>
<th>Technology</th>
<th>Buried / Invisible</th>
<th>Doesn’t influenced by birds, small animals</th>
<th>Immune to environmental conditions - fog, rain, trees</th>
<th>Doesn’t require line of sight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SensoGuard</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Motion detectors</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Remote sites protection

- Infrastructure sites / heavy tool equipment protection / crops protection
  - Stand alone system
  - Battery operated for years
  - SMS alerts - footsteps / vehicles
  - Maintenance free
Remote sites protection

System components

- Processing Unit + GSM modem
- 3 seismic sensors
## Remote sites protection

### SensoGuard VS. Video motion detection (VMD)

<table>
<thead>
<tr>
<th>Technology</th>
<th>Buried / Invisible</th>
<th>Battery operated</th>
<th>Immune to environmental conditions - fog, rain, trees</th>
<th>Doesn’t require line of sight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SensoGuard</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>VMD- Video motion detection</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Perimeter system

- Prison protection / Border protection / Critical infrastructure sites
  - Perimeter system – invisible fence 6m width
  - Relevant threats – footsteps, digging, vehicles
  - Our C&C or Integrated with existing C&C system
Perimeter system

System components

- Seismic sensors string
- Communication cable (RS485)
- Hub unit
- C&C
## Perimeter system

### SensoGuard VS. Other buried systems

<table>
<thead>
<tr>
<th>Technology</th>
<th>Doesn’t influence by wet ground</th>
<th>Underground digging detection</th>
<th>Pricing Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>SensoGuard</td>
<td>V</td>
<td>V</td>
<td>$ Cost per meter</td>
</tr>
<tr>
<td>Leaky coax cable</td>
<td>X</td>
<td>X</td>
<td>$ Cost per meter</td>
</tr>
<tr>
<td>Fiber optic</td>
<td>V</td>
<td>V</td>
<td>$$$ high basic cost, price gets lower for large sites</td>
</tr>
</tbody>
</table>
Military solutions

- Wireless sensor network
  - Up to 100 sensors connected to a PC with Command and control software
  - UHF 433Mhz, Communication range : 300m
  - Battery operated for years
  - Detection and classification - footsteps/vehicles
Military solutions

- **Stand-alone GSM sensor**
  - Stand alone sensor covers 50sqm
  - Simple installation
  - Detection and classification - footsteps/vehicles
  - Battery operated for years

- **SG-Cam kit**
  - Seismic sensor triggers GSM camera
  - Simple installation
  - Photo sent via MMS or Email message
  - Battery operated for 3 months
SensoGuard serves as a design house for companies who seek addition of seismic technology to their products.
Examples

Communication site protection
Examples

Infrastructure site protection
Examples

Heavy Tools parking zone protection
Examples

Village route protection
Examples

Private house protection
Examples

SG-Cam kit for route protection
Thanks for your time

visit us at www.sensoguard.com

Contact us at sales@sensoguard.com