Solarbeam Wireless Perimeters

- Solar & Battery Powered
- Stand-Alone Technology
- Durable Construction
- Proven IR Beam Technology
- Low Maintenance
- Easily Deployed
- Patented Technology
IR BEAM DETECTION – “how it works”

- Think of this as a *beam fence*
- Multiple pulsed beam array extends between towers
- All beams in the array must break simultaneously
- Requires a physical action to trigger an alarm
- Low false alarm rate
- Proven technology
- Low installation costs
- Patented technology (US 8,193,936, B2)
AIRPORT PERIMETER EXAMPLES

SOLARBEAM WIRELESS PERIMETER SYSTEMS ARE PERFECT FOR LONG REMOTE AREAS WHERE OTHER SYSTEMS MAY NOT BE COST EFFECTIVE OR EASILY DEPLOYED. NINE SOLARBEAM TOWERS CAN PROTECT ONE MILE OF PERIMETER.
POWERPLANTS, AIRPORTS AND LARGE INDUSTRIAL SITES HAVE IRREGULAR BORDERS AND ARE FILLED WITH OBSTRUCTIONS, VALIDATING THE NEED FOR STRONG PERIMETER PROTECTION AND CAMERA OVERVIEW VERIFICATION.
Simple Assembly & Installation

COMPONENTS

45-Watt Solar Panel

Control Panel

4 - 12V 12A Gel Batteries

Cement Pedestal

Mounting Hardware Included

IR Beams (Spanning 660’)

AT&T Secure M2M LTE or Secure Radio Connection
TOWER INSTALLATION

PREPARE THE SITE AND PLACE THE PRE-FORMED CONCRETE PAD IN PLACE, BOLT THE TOWER TO THE BASE AND ALIGN THE BEAMS, ASSEMBLE THE TOWER, TEST AND GO HOME.

18” x 22” Hole
Concrete Base (250lb)
Attach to the Base
Simple Beam Alignment
Assemble the Tower
Test & Leave
UNIVERSAL PERIMETER APPLICATIONS
Solarbeam vs Other Systems

- Avoids power disruption issues (7-14 day back-up battery power supply)
- Avoids analytic camera cost, bandwidth & complexity
- Avoids fence-shaker complexity & recurring mnx
- Avoids nuisance alarms due to fence movement or indiscriminate shaking
- Completely free from the substation grid plus no EMI
- Avoids electrical surge and lightning issues
- Avoids substation infrastructure changes
- May be user installed
Common Questions

• Do animals set off the alarm?
• What is the false-alarm rate?
• What about lightning?
• Can someone crawl under the beams?
• How much solar charging is required?
• Are there problems in northern climates?
• How is this system different than other beam systems?
• Can this system replace camera systems?
• What do your patents cover?
VIDEO VERIFICATION: Slimline Solar Powered Series

The Slimline series is a solar powered platform capable of supporting remote security sensors in all-weather, severe climates and both day and night operations.

- **Sensors:** Spotter Shield radar, PTZ cameras, thermal cameras, IR curtain sensors, IR beams, and cameras with IR illuminators

- **Modular Design (to include airport frangibility):** allows for flexible design for demanding scenarios and easy access to components

- **Solar Powered with 5+ days battery backup:** 12VDC, +200 Ahr capacity varying with the sensors package

- **Tower Height:** 16’-20’ with a hinged base for easy maintenance

- **Precast Concrete Base:** cement mounting base poured in-place and approx 25” dia x 40” deep, installed partially above ground

- **Detection (4 Poles/site):** efficient detection by combining two sensor technologies such as the IR curtain and analytic thermal camera from multiple overlapping poles or sites

- **Threat Detection Outside the Fence Line:** efficient design and planning allows for pre-emptive detection outside protected areas
Summary

- Solid perimeter protection with camera verification
- Simple, cost-effective technology easy to field
- Patented, TSA Safe Skies and DOE Reviewed
- Durable & long lasting (10 & 3 year warranty)
- **Lifetime** lightning warranty
- Lower recurring maintenance and longer service life than any other system fielded
- Proven low-risk - already in substations and critical infrastructure sites 14+ years