

Solarbeam Wireless Perimeter Systems



THE LEADING SUPPLIER AND MANUFACTURER OF SOLAR POWERED PERIMETER SECURITY PRODUCTS





SOLARBEAM™ Wireless Perimeter Systems



Solarbeam™ Security provides wireless perimeter systems that create an IR beam fence around a property or facility to provide immediate notification of an intruder. Establishing an outer layer of security allows for layered asset protection starting at the property boundary; thereby providing early warning of intrusion and complementing camera and building alarm systems. This is the same security philosophy used in airports, correctional facilities, power generation plants, and other critical infrastructure scenarios. As Solarbeam towers are battery and solar powered, they do not require expensive electrical infrastructure, plans or permitting – translating into rapid system deployment and cost-effective security.

Solarbeam™ has patented the technology of using solar powered sensor systems with secure cellular and radio reporting for perimeter security. Additionally, Solarbeam has been reviewed by the TSA Safe Skies program for use in airports and high security applications, and has been approved for use by DOE at Idaho National Labs – meeting some of most demanding thresholds of security performance.

APPLICATIONS



Solarbeam's towers are constructed of durable polycarbonate and Lexan, providing long-lasting durability and free from EMI or RFI considerations. Of note, Solarbeam has systems functioning for over fourteen years in the south Florida marine environment. Applications can include:

- Airports, Ports & Marinas
- Construction Sites
- Gated Communities
- Country Clubs and Golf Course Home Owner Associations
- High Security Laboratories & Research Centers
- Environmentally Sensitive Facilities
- Electrical & Pipeline Substations
- Power Generation Plants
- Water Treatment Facilities & Wells
- Petrochemical Plants & HAZMAT Storage Areas
- Luxury & Waterfront Residences
- City and Municipality Facilities
- Warehouses, Logistics Centers & Foreign Trade Zones



CITY OF HOMESTEAD CASE STUDY

The City of Homestead is a south Florida community of 60,000 and prior to 2005, experienced common city ailments such as theft and vandalism in city-owned facilities, late-night trespassing and drug use at city parks, and increased police patrol of city properties to attempt to safe-guard these areas. Unfortunately, in 2004 a late night juvenile trespasser drowned in a City-owned pool leaving the City vulnerable to expensive litigation and adverse publicity. Additionally, the City owns and operates its power plant and substations which again creates a significant liability due to trespassing copper thieves. In the face of steadily increasing insurance costs, risk exposure, a tragic fatality, and ever-increasing police patrol hours – the City began looking for cost-effective solutions to secure their facilities.

Solarbeam International manufacturers patented wireless perimeter systems that use invisible IR beams to surround a facility or create a beam fence to provide immediate notification of intrusion. Patented polycarbonate and Lexan towers contain an interlaced IR beam system that can extend 660' in each direction and efficiently surround a ten-acre facility with only four towers. As the towers are stand-alone using battery and solar power with radio or cellular transmission, they do not require expensive electrical infrastructure, plans or permitting – and can be deployed quickly. Should security requirements change, they can be redeployed as well ensuring that the investment value remains in the product and not the infrastructure. Most importantly, Solarbeam towers are durable and can remain in service for 15+ years with only minor upgrades – ensuring a cost effective solution year after year.

After reviewing many possible solutions, in 2005 the City of Homestead created a joint partnership with Solarbeam to purchase and install wireless perimeter systems for nineteen facilities. These include:

- Power generation plant
- Electrical substations (4)
- Roby George Park and Pool
- Harris Field Pavilion
- Homestead Community Center
- Police SWAT parking area & facility
- Water towers (2)
- Hazmat chemical storage area
- Water treatment plant and two pump stations
- Combined facility housing solid waste, parks & recreation, and procurement
- 100' antenna locations (2)
- Fleet maintenance and motor pool facility

The perimeter of each facility reports directly to the police station with a silent alarm, allowing for immediate central dispatch of a police unit. As the alarm is silent and the response is silent, there is a very high catch-rate for intruders, which in itself provides a deterrent effect in the criminal community. As the Solarbeam perimeter systems continued to prove successful and reliable at detecting intruders, the police department shifted patrol patterns away from City facilities and back into the community they serve. This reallocation of police patrols continues to reduce crime and improve police response times.

Most importantly, since installation of the systems nine years ago there has not been a successful or undetected break-in at a protected facility. This success has not only allowed police man-power to be shifted into the community, but has reduced insured risk, zeroed vandalism and theft costs at City facilities, eliminated City exposure due to trespassing, and possibly saved lives previously at risk in sub-stations - water towers - and pools. As Homestead Police Chief Rolle states in his Solarbeam testimonial, "Solarbeam is a partner in crime deterrence and law enforcement within the City of Homestead".



SOLARBEAM
WIRELESS PERIMETER SECURITY

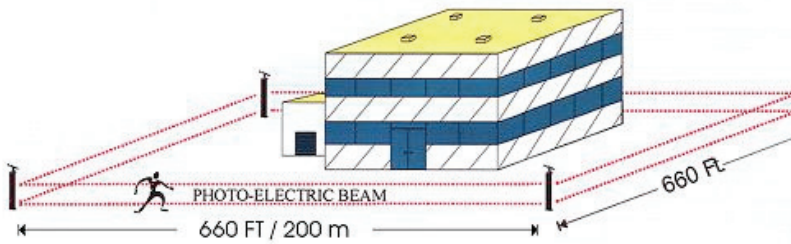


City of Homestead Substation Installation



City of Homestead Fleet Maintenance Yard

THERE IS NO SUBSTITUTE FOR PERIMETER PROTECTION



Solarbeam's wireless perimeter intrusion system creates an infrared wall of protection between any two towers. When an intruder violates a protected area, an infrared beam array is broken and notification is wirelessly transmitted to a central location for response. This technique enhances the ability of security personnel to be truly aware of the perimeter integrity and to focus on those areas of concern in a timely manner. Most important, reliable perimeter security eliminates human and analytic reliability issues as well as expensive computer software, upgrades and maintenance required with complex camera systems. In summary, "detect with IR beams and verify with cameras".



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