



ACTIVE INFRARED BARRIERS





TECHNOLOGY

ACTIVE INFRARED BARRIERS

OPERATING PRINCIPLE

PROTECH Active infrared barriers are composed of

- **TRANSMITTER CELLS** that emit beams of invisible infrared light and
- **RECEIVER CELLS** that detect the beams and analyze whether they are correctly received.

Columns face each other and are installed along the site for perimeter protection.

The combination of these two cell types form an invisible wall of detection. When one or more of the beams is interrupted or broken, the system triggers an alarm.

TECHNOLOGY BENEFITS



MINIMAL SPACE NEEDED FOR EQUIPMENT



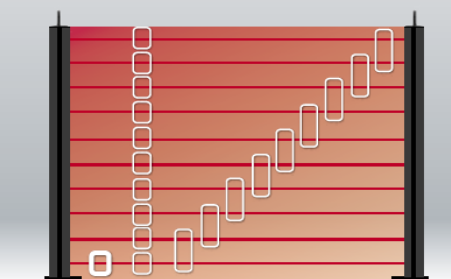
LIMITED MAINTENANCE REQUIRED



A PROVEN SOLUTION
Reliable and effective

PROTECH ACTIVE INFRARED TECHNOLOGY

Building upon over 30 years of experience, our Dynamic Scan Detection (DSD) technology guarantees PROTECH's infrared barriers are the most reliable on the market. DSD enables a high-density infrared barrier with cells to be independently managed. Each column is able to manage a maximum number of cells. These infrared barriers cannot be breached without causing an alarm.



HOW IT WORKS

Different modes (time-controlled dual-detection, mono-detection, time-controlled lower beam mono-detection) can be configured to ensure a high level of detection reliability and will function simultaneously, making it possible to filter out unwanted alarms (birds, animals, etc.)

FULL RANGE OF SYSTEMS

APPLICATION SPECIFIC



MIRIS



1 m - (with 2 cells)
to 3 m - (with 8 cells)



SAVINGS IN TIME AND MONEY

- Easy cabling



EASE OF INSTALLATION

- Identical columns



ENHANCED SECURITY

- Integrated anti-climbing caps



ALL WEATHER RELIABILITY

- Integrated thermostat controlled heaters



MAXIRIS



1 meter (4 cells) to 3 meter (14 cells)



HIGH PROBABILITY OF DETECTION

- High cell density results in ultimate performance



REMOTE DIAGNOSTICS

- Through Maxibus Web Browser
- Diagnostics: time-stamped event log with beam visualization



RELIABLE DETECTION

- Multiple simultaneous detection modes
- Zoning functionality in association with video alarm verification



ENHANCED SECURITY

- Integrated anti-climbing caps
- US Air Force Approved Protection Level I Nuclear and Below



ALL WEATHER RELIABILITY

- Integrated thermostat controlled heaters



COST EFFECTIVE



SOLARIS

FOR APPLICATIONS
REQUIRING ZERO INFRASTRUCTURE



**AUTONOMOUS BARRIER =
LOWER COSTS**

- No civil engineering: solar powered with a DRN Dynamic Radio Mesh Network



**GUARANTEED SITE
INTEGRITY AND SECURITY**

- Dynamic Radio Mesh Network
- Secure network:
AES 256-bit data encryption



ENHANCED SECURITY

- Integrated anti-climbing caps



ALL WEATHER RELIABILITY

Integrated anti-climbing caps



MINIRIS

FOR BUILDING EXTERIOR
APPLICATIONS



**DESIGNED FOR DISCREET
INSTALLATION ON
BUILDINGS**

- Customized painting on request



**ALL WEATHER
RELIABILITY**

- Integrated thermostat controlled heaters



BIRIS

FOR ISOLATED ZONES



**COST-EFFECTIVE
SOLUTION**



**IDEAL FOR THE
PROTECTION OF SPECIFIC
APPLICATIONS**

- Gates
- Walls and Wall Tops
- Roofs and Rooftops



**ALL WEATHER
RELIABILITY**

- Integrated thermostat controlled heaters





APIRIS

**MULTIPLE TECHNOLOGY
SOLUTION FOR HIGH SECURITY
APPLICATIONS**



**COMBINES VOLUMETRIC
DETECTION WITH AN
INFRARED BARRIER AND
MOTION SENSOR (Passive
IR + Microwave)**

- A microwave barrier combined with MAXIRIS technology



**All (3) technologies are
US Air Force approved for
Protection Level I Nuclear
and Below**



CUSTOMIZED

SPECIALIZED PRODUCTS

FOR SPECIFIC REQUIREMENTS

- **CUSTOM HOUSINGS**
For use in specific environments
- **STEEP INCLINES**
- **TRAIN FILTERING FUNCTION**
To secure railway tunnels and detect pedestrian movement without triggering an alarm when trains pass
- **OVERHANG INSTALLATION**
To secure bridges
- **LOADING DOCK INSTALLATION**
To secure sites in seaside environments
- **CUSTOM MOUNTING**



HOUSING DESIGNS

FOR OUR ELECTRONICS

To meet all of your specialized needs, we have developed four housings that can be used with all of our products.

CLASSIC



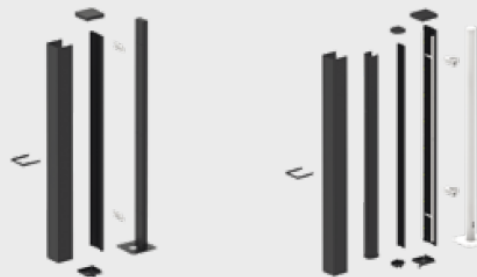
3000 HOUSING

- Small footprint
- Easily adaptable for wall or pole mounting
- Height: up to 16.5 ft. (5 meters)

3100 HOUSING

- Single or double direction configurations
- Built-in anti-climbing cap
- Height: up to 10 ft. (3 meters)

CUSTOM



3200 HOUSING

- Application for steep slopes
- Control of cell height in Double Direction
- Height: up to 16.5 ft. (5 meters)

3400 HOUSING

- Seaside applications: Performs well in humid and salty environments
- Withstands sea spray and waves

MADE IN THE USA

PROTECH's infrared barriers are Commercial Off-the-Shelf products manufactured and tested in our factory in Sparks, Nevada, USA.



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