Operating Principle

Active infrared barriers are composed of
- **Transmitter Cells** that emit beams of invisible infrared light.
- **Receiver Cells** that detect the beams and analyze whether they are correctly received.

By combining these two cell types, active infrared barriers form an immaterial wall.

When one or more beams are interrupted, the system triggers an alarm.

The columns are positioned facing one another and are installed along the perimeter of the site to be protected.

**The Technology Advantages**

- **Little Space Required**
  (Equipment and immaterial detection wall)
- **Limited Maintenance**
- **A Proven Solution**
  Reliable and effective

**SORHEA Infrared**

Building on our 30 years of experience, we have developed our own Technology DSD. It guarantees that our infrared barriers are the most reliable on the market.

DSD (Dynamic Scan Detection) Technology enables the cells to be independently managed.

A maximum number of cells can be managed per column. Our DSD Technology thus makes it possible to create a high-density infrared barrier that cannot be crossed.

The different detection modes that can be configured on our barriers ensure a high level of detection reliability. These different detection modes (time-controlled dual-detection, mono-detection, time-controlled lower beam mono-detection) can function simultaneously, making it possible to filter out unwanted alarms (birds, animals, etc.).
OUR RANGES

THE ESSENTIALS

COLIRIS

- From 1 m - 3 cells to 2 m - 4 cells
- Time and money savings
  - Easy cabling
- Simple column installation
  - Identical columns

MAXIRIS

- 2 m - 6 cells
- 3 m - 10 cells
- High detection capability
  - High-performance columns with high cell density
- Remote maintenance
  - Connection of the system to a network
  - Diagnostics: a time-stamped log and beam visualisation
  - Remote visualisation
- Reliable detection
  - Multiple simultaneous detection modes
  - Zoning functionality in association with video alarm verification
THE SPECIFICS

SOLARIS
FOR APPLICATIONS WITHOUT CIVIL WORKS

AUTONOMOUS BARRIER = LOWER COSTS
- No civil engineering: solar powered with a DRN dynamic mesh radio network

GUARANTEED SITE INTEGRITY AND SECURITY
- Dynamic mesh radio network
- Secure network: AES 256-bit data encryption

MINIRIS
FOR FAÇADE APPLICATIONS

DESIGNED FOR DISCREET INSTALLATION ON BUILDING FAÇADES
- Customised painting on request

UNIRIS / BIRIS
FOR ISOLATED ZONES

COST-EFFECTIVE SOLUTION
IDEAL FOR THE PROTECTION OF SPECIFIC LOCATIONS
- Gates
- Top of walls
- Roofs
**APRIRIS**

FOR CORRIDOR DETECTION APPLICATIONS

- Combines volumetric detection with an infrared barrier
  - A microwave barrier combined with MAXIRIS technology

**SPECIALISED PRODUCTS**

FOR SPECIALISED REQUIREMENTS OR SPECIFICATIONS

- SPECIALISED HOUSINGS
  For use in specific environments
- STEEP INCLINES
- TRAIN FILTERING FUNCTION
  To secure railway tunnels and detect pedestrian movement without triggering an alarm when a train passes
- OVERHANG INSTALLATION
  To secure bridges
- LOADING DOCK INSTALLATION
  To secure quaysides
- CUSTOM MOUNTING
HOUSINGS DESIGNED
FOR OUR ELECTRONICS

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

CLASSIC

- Small footprint
- Easily adaptable
- Easier wall or overhang attachment
- Height: up to 5 m

CUSTOM

- Control of cell height in Double Direction
- Built-in anti-climbing cap
- Height: up to 3 m

3000 HOUSING

- Application for steep slopes
- Control of cell height in Double Direction
- Height: up to 5 m

3200 HOUSING

- Seaside applications: resists humid and salty environments
- Withstands sea spray and waves

3100 HOUSING

- Height: up to 3 m

3400 HOUSING

Our infrared columns are delivered assembled and are all tested in our factory in Lyon, France, to guarantee the quality of our products. Thermostated heating is directly integrated: it is not an additional paid-for option.