

# ACTIVE INFRARED BARRIERS

**SORHEA**

TECHNOLOGY

# ACTIVE INFRARED BARRIERS

## 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

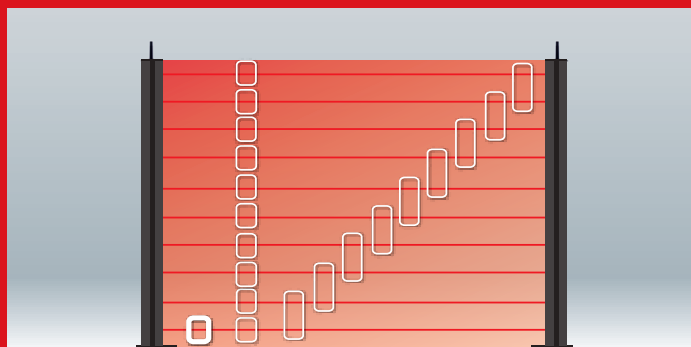
Reliable and effective

## 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 visualization
- 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





## APIRIS

FOR CORRIDOR DETECTION APPLICATIONS



**COMBINES VOLUMETRIC DETECTION WITH AN INFRARED BARRIER**

- A microwave barrier combined with MAXIRIS technology



## CUSTOM



## 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

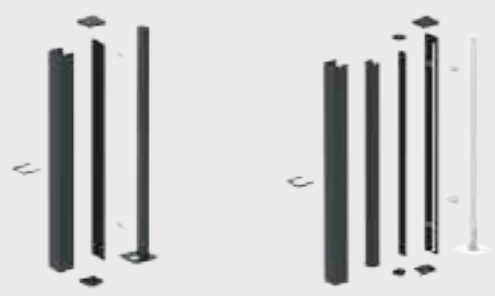
To meet all of your specialised needs, we have developed four housings that can be used with all of our products.



## CLASSIC



## CUSTOM



### 3000 HOUSING

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

### 3100 HOUSING

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

### 3200 HOUSING

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

### 3400 HOUSING

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

MADE  
IN FRANCE

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.



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