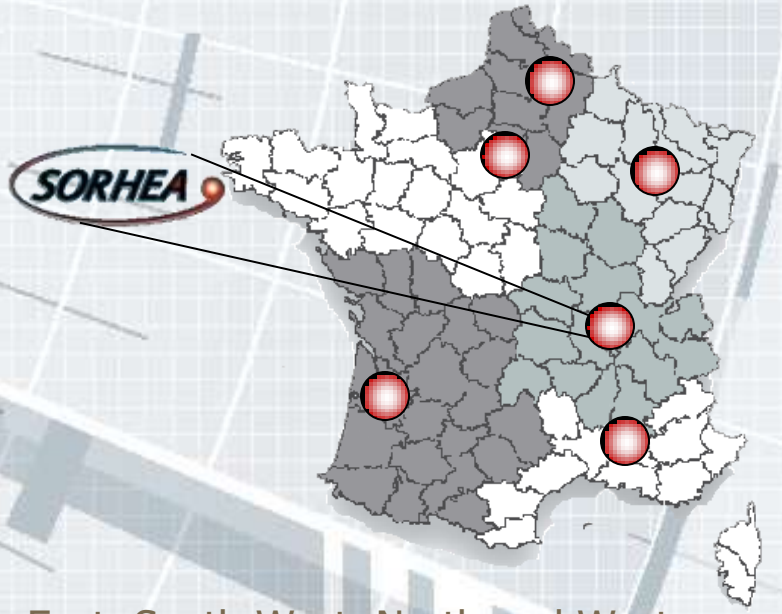
PERIMETER SURVEILLANCE OF SENSITIVE SITES

SORHEA - Identification card

- Company founded: 1987
- Headquarters and factory at Vaulx-en-Velin (FR)



- French sales teams in the North-East, East, South-East, South-West, North and West.
- Subsidiarie in Germany
- Sales through a network of installers
- Sales 2008: 9.8 M€, 25% in exports
- Field of activity:
  - Perimeter surveillance and intrusion detection solutions.
  - Support before and after sales
  - Technical training for implementation and after-sales services for products

Types of protected sites

- Energy production
- Government facilities
- Military facilities
- Prisons
- Logistics sites
- Chemical industry
- Pharmaceutical industry
- Food and agricultural industries
- Automotive industry
- Airway and railway industries
- Administration facilities
- Industrial sites

References

KRAFT

EADS

Snecma
Groupe SAFRAN

cea

ALLOIN

AREVA

DANONE

NORBERT DENTRESSANGLE

sanofi aventis
L'essentiel c'est la santé.

RATP

Nestlé

MINISTERE DE L'INTERIEUR,
DE LA SECURITE INTERIEURE
ET DES LIBERTES LOCALES

IBM

L'ORÉAL

ROHM AND HAAS

Lyonnaise des Eaux
SUEZ

Panasonic

GRAVELEAU
DACHSER Group

TOTAL

Freudenberg

Valeo

سونلغاز
SONELGAZ

ARMEE DE TERRE

& france telecom

MICHELIN

NESPRESSO

MINISTÈRE
DE LA DÉFENSE

EDF

RTL
GROUP

Coca-Cola

Yves Rocher

GEODIS
calberson

vente-privee.com

ALCATEL

MINISTERE DE LA JUSTICE

EURO TUNNEL

AÉROPORTS DE PARIS

AIRBUS

Stade de France

Amsterdam
Airport Schiphol

THALES

SNCF

BANQUE DE FRANCE

All over the world

SORHEA PRODUCT LINES

Special products

Services to customers

Mobile detection

Infrared

Buried cable detection system

Microwave

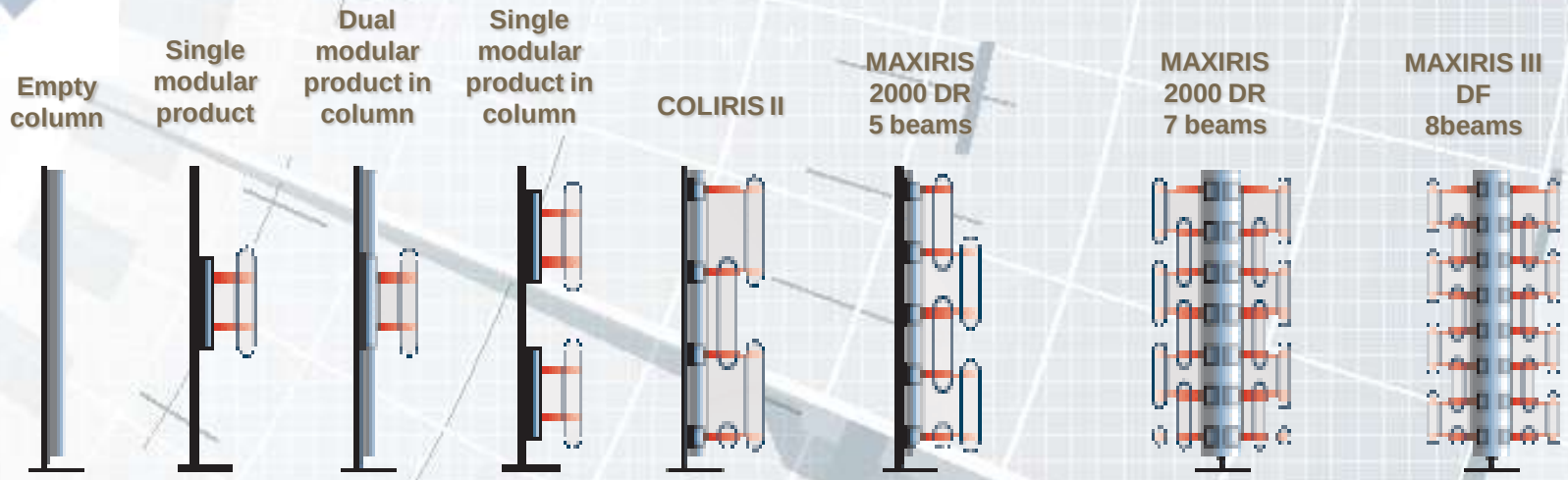
Dual technology

Impact detection
- Fences
- Sidings

INFRARED

SELECTION CRITERIA FOR AN INFRARED COLUMN

Selection criteria for a product



	PRICE			DISSUASION		DETECTION & SECURITY		
Dissuasion	YES	NO	YES	YES	NO	YES	YES	YES
Detection	0%	22%	22%	44%	94%	94%	98%	98%
Applications	Private individuals Top of the wall Building facades			Private individuals Car repair shops/ dealers		High risk sites Logistics sites Automotive subsidiaries VIP residences (villas etc.)		

Comparison table

Solution	Small housing	Facade	Column	Intelligent column
SORHEA products	**BIRIS II**	**MINIRIS II** **FINIRIS II**	**COLIRIS II**	**MAXIRIS 2000 network**
Number of beams	2	2 to 6	4	2 to 16
Height (in m)	0.40	1 to 2.5	1 to 2	1 to 5
Detection principle	Bi-detection (2 beams cut = 1 alarm)		Mono-detection Bi-detection	Mono-detection Bi-detection Mixed detection
Applications	Private individuals Top of the wall Building facades	Private individuals Windows and doors	Private individuals Car repair shops/dealers Small facturies Up to 8 protection segments	High risk sites Automotive subsidiaries Logistics sites Widely recommended from 8 protection segments

SORHEA products

SECURITY	weak	average	average	good	good	good	good	very good	excellent	maximum
BUDGET € /lin. m.										
150										
120										Special products
70									Maxiris 2000 + CCTV	
60								Maxiris 2000		
50										
35							Coliris II			
25						Finiris II				
20					Miniris II					
15				Coliris I						
10			Biris II column							
5	Uniris II	Biris II								
2.5										
0										

Security level

Price | Dissuasion | Detection & Security

QUESTIONS ABOUT INFRARED TECHNOLOGY

Are the beams visible?

The infrared light used by these columns is invisible to the human eye

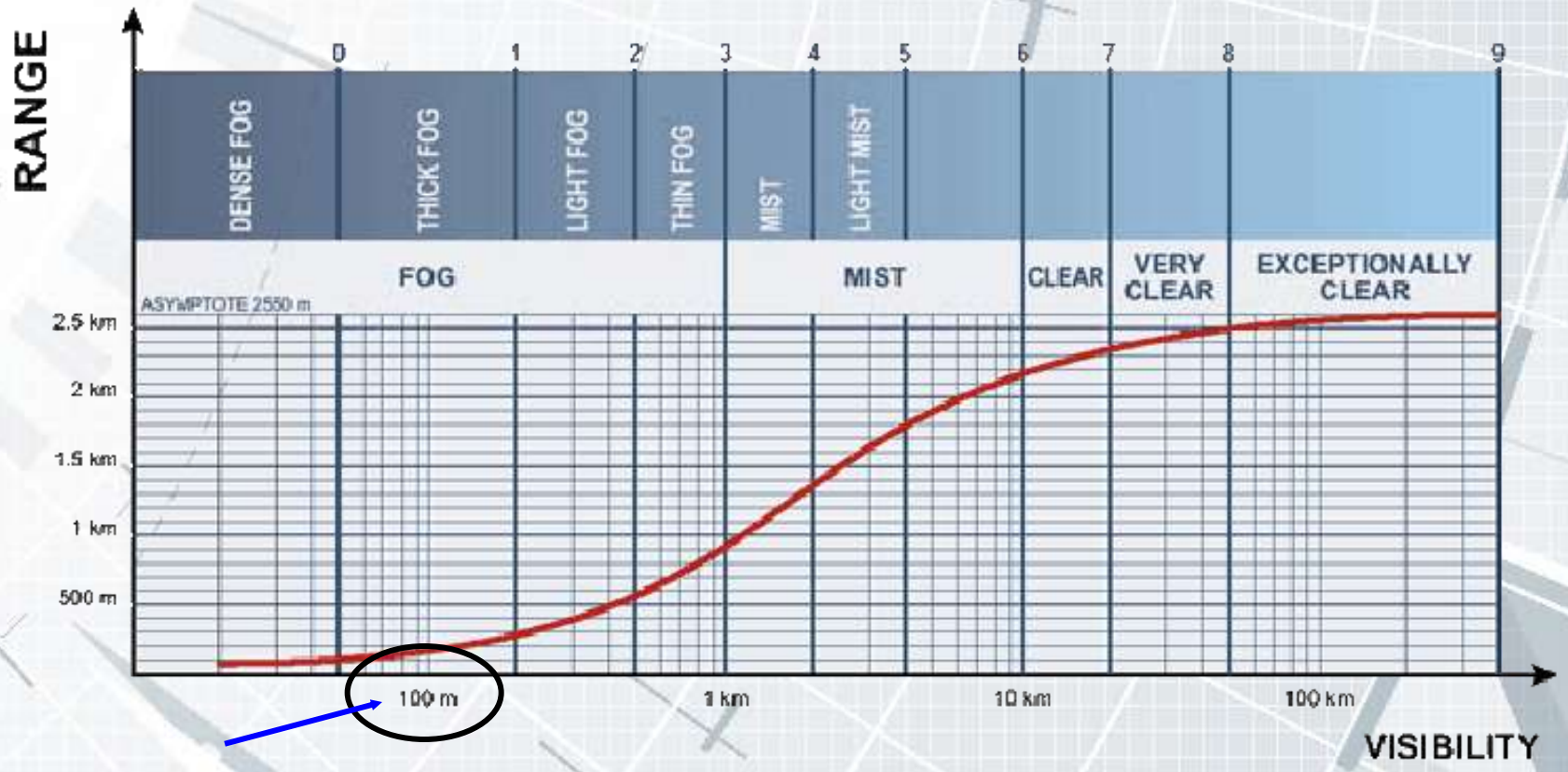
TYPE OF DETECTOR >>>>

ACTIVE INFRARED

PASSIVE INFRARED

My competitor suggests a range of 200 m? What should I answer?

Maximum range recommended for an infrared cell



- Theoretical maximum range: 2550 m
- When visibility is 150 m, the range reaches 200 m
- With visibility of 60 m (thick fog), the range reaches 100 m

DUAL TECHNOLOGY

SORHEA products

Dual technology detector

Applications

- Video surveillance camera
- Tracking motion inside a protected site

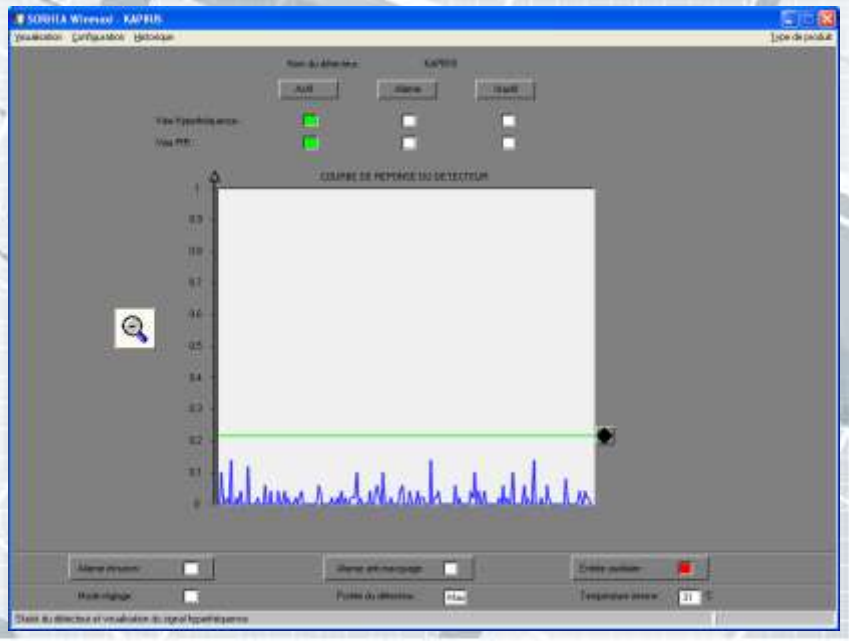
Triple technology barrier

Applications

- High risk sites
- Prisons, military facilities, etc.

KAPIRIS design

- Dual technology detector
  - Microwave with Doppler effect (24GHz)
  - Passive infrared
- Compatible with MAXIBUS network
- Remote configuration (WINMAXI)
- Precise range control
- Maximum range = 50 m

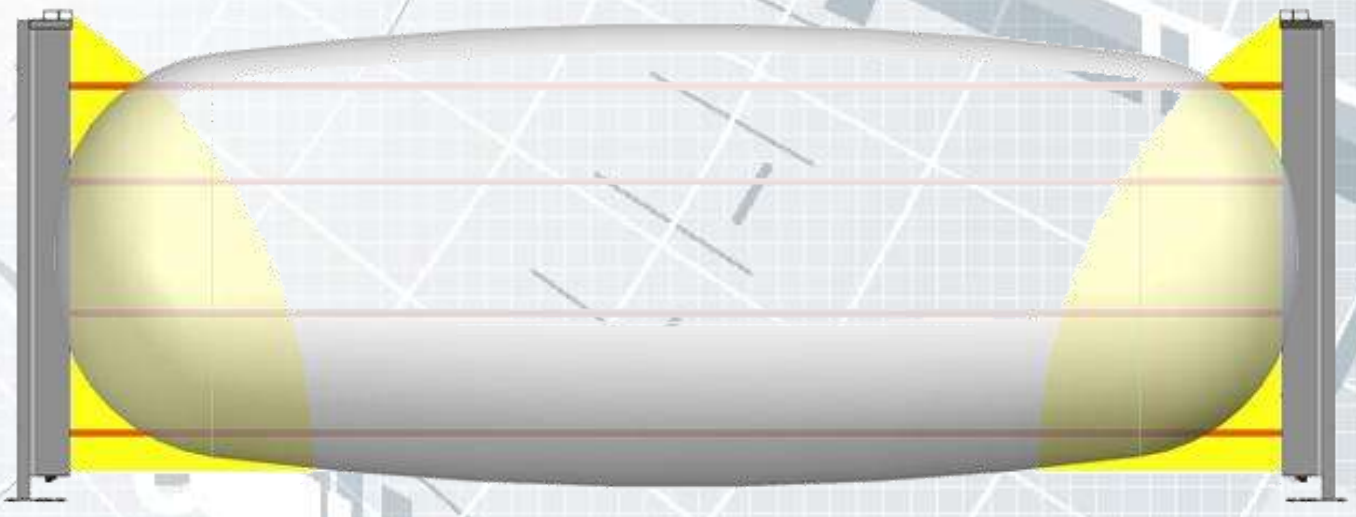


Detection principle

- The detector reacts to any moving object
- An immobile person in the detection zone will not trigger an alarm
- Intrusion alarm is triggered by detection by two sensors

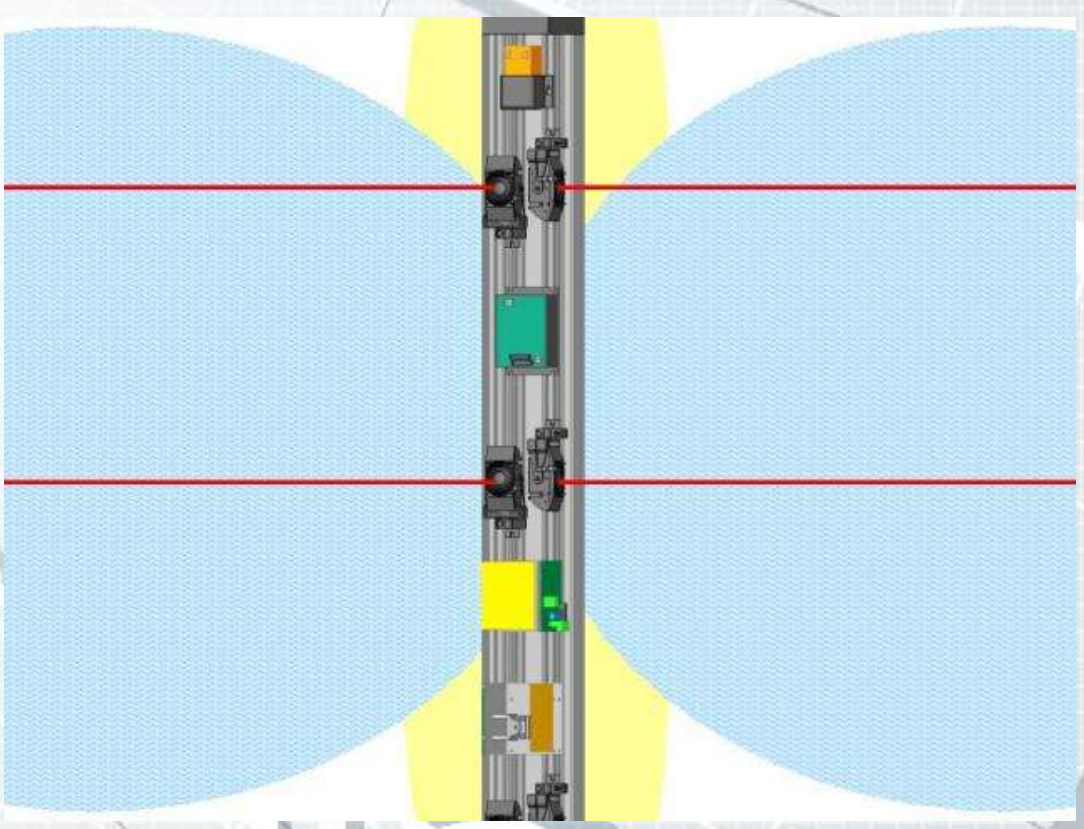
APIRIS barrier

- New barrier with triple technology:
  - Active infrared barrier
  - Microwave barrier
  - Microwave doppler
- Designed for particularly sensitive sites (prisons, military facilities, etc.)



Operation principle

- Adding a microwave doppler eliminates the dead angle created by a microwave barrier at the bottom of the column
- No longer necessary to cross the beams for a 100% effectiveness. APIRIS works in two directions making it more cost effective



IMPACT DETECTION

Presentation of the system

- **AQUILA** is an impact detection system for protection of buildings
- The system uses optical fiber technology that is not subject to electromagnetic interference
- Protects:
  - Warehouses
  - Logistics sites
  - Vaults
  - Industrial buildings
  - Supermarket sector
  - etc.
- Effective on various surfaces:
  - Sheet metal
  - Bricks
  - Cinderblocks
  - etc.

BACK TO CONTEN

Operating principle

1. The fiber optical cable transmits a light signal.
2. Upon an intrusion attempt the signal is distorted.
3. This distortion is then analyzed by the PU.
4. The intrusion is detected.

MOBILE SYSTEMS

SORHEA products

Mobile solution

Applications

SEVERAL HOURS
SEVERAL DAYS

- Temporary military facilities
- Construction site equipment
- Aircraft

Semi-mobile solution

Applications

SEVERAL DAYS
SEVERAL WEEKS

- Exhibition Tents
- Temporary storage sites
- Car parks

SPECIAL PRODUCTS

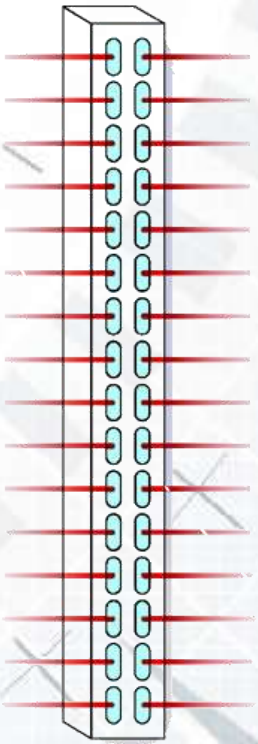
SORHEA products

IP67 housings

ATEX products

Product Design

SORHEA products

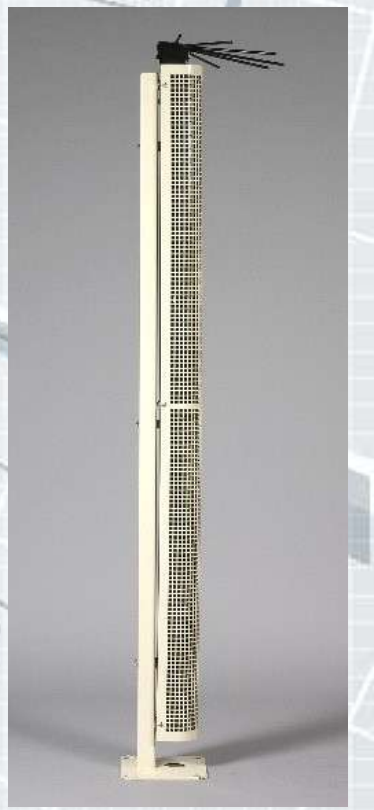


MAXIRIS 2000

double stack

MAXIRIS 2000

extremely cold weather



MAXIRIS 2000

tropicalized

MAXIRIS 2000

seaside

SORHEA also offers a wide range of services

- Before and after sales support
- Technical training
- Sales training
- Hotline
- After-Sales Service
- On-site support