

Autonomous active infrared barrier



## EASY INSTALLATION

Autonomous barrier, requires no civil works, no cabling.

## RELIABILITY

Communication via secure and reliable radio protocol. High detection power.

## INNOVATION

1st autonomous infrared barrier on the market

## PRINCIPLE

The autonomous **SOLARIS** columns create a virtual, imperceptible detection wall. Powered by an integrated solar panel and battery, no civil works procedure is necessary for installation. The independence of the system also is due to the transmission of alarms via an integrated radio. A virtual dynamic radio network is thus created by the entirety of **SOLARIS** columns for transmitting all alarm information in an efficient manner.

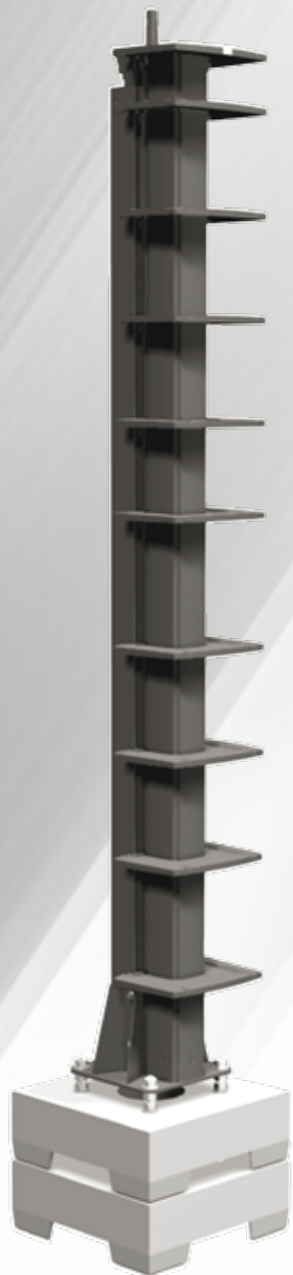
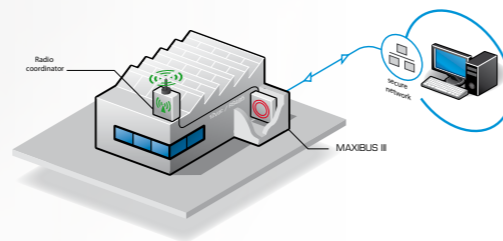
Each **SOLARIS** column integrates an ultra-high performance radio transmitter/receiver that consumes very little energy. When an infrared barrier detects an intrusion, the alarm information is transmitted by the radio transmitter of the receiver column. The message is received by the entirety of infrared columns nearby which in turn retransmit the data automatically. The alarm message is thereby relayed to a coordinating radio receiver linked to the **MAXIBUS III SOLARIS** hub. The alarm center is then alerted of the intrusion.

## APPLICATIONS

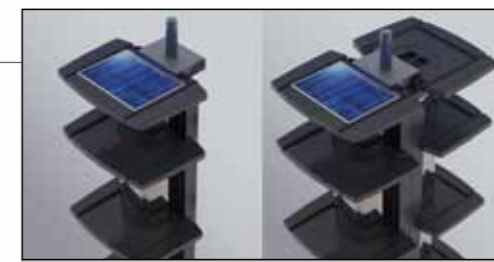
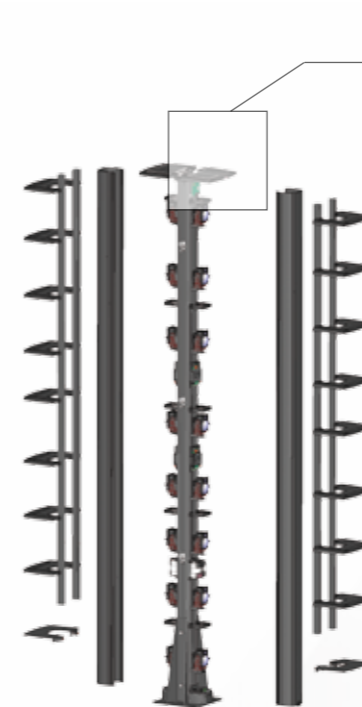
The ease of installation of a **SOLARIS** column allows adapting it to existing sites that require high security perimeter surveillance:

- » logistics sites,
- » automobile concessions,
- » industrial complexes, etc.

In the case of complex sites, where the **SOLARIS** column cannot be installed in a clear zone, it is possible to alter the position of the solar panel to endure power for the system. The solar panel technology has been in any case studied to allow recharging of the battery even in the event of weak light.



## » 100% AUTONOMOUS SOLUTION, NO CIVIL WORKS

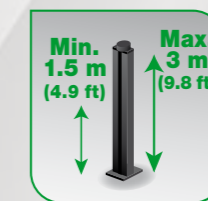


The **SOLARIS** infrared column is 100% autonomous. Powered by an integrated solar panel and battery, no civil works procedure nor cabling is necessary for installation. The solar panel consists of Copper Indium Selenium (C.I.S.) and allows charging of the battery even in the event of weak light. The battery, also, ensures excellent autonomy of the system and the operating temperatures of between -25°C to +55°C (-13°F to 131°F). **SOLARIS** is also equipped with a radio transmitter/receiver. Thanks to

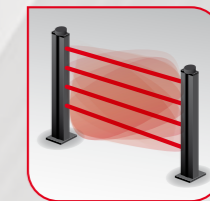
its dedicated communication protocol, which is encrypted, the group of infrared columns form a virtual dynamic radio network. This technology allows alarm information to automatically borrow an alternate route to reach the radio coordinator and the hub. Constantly focused on optimizing energy management, **SORHEA** has also developed its radio transmitters and receivers to ensure a low level of consumption of electricity. To ensure even greater security, a "watchdog" function provides network integrity.

## Detection level

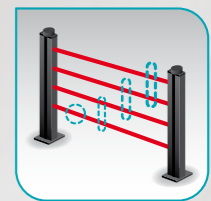
- » Adjacent dual-beam detection.
- » Time-delayed mono-detection of the lower beam.
- » Restart in the event a detection beam is ejected.



Detection height



4 to 32 beams



Adjacent Dual-detection

## TECHNICAL SPECIFICATIONS

Exterior range	75 m (246 feet)			
Height of columns	1.5 m (4.9 ft)	2 m (6.6 ft)	2.5 m (8.9 ft)	3 m (9.8 ft)
Number of Beams	6 to 20			
Control Method for beams	Multiplexed and synchronized via optical link (4 channels)			
Power supply	Solar panel and battery in each column			
Alarm Information	Intrusion Disqualification: Tamper Anti-tamper cap Power failure Radio connection loss			
Operating temperature	-25°C to +55°C (-13°F to 131°F)			
Protection index	IP44			