

## PROTECTION & SECURITY – PERIMETER PROTECTION

Each Protection level involves the implementation of specific equipment to meet the requirements



### -Level 1 :

Simple Fencing

### -Level 2 :

Simple or double fencing

Additional protection equipment (Crash barrier, gabion walls, automated sensor lighting...)

Intrusion detection (fence front or rear )

Visible detection equipment

Subsoil Detection equipment

Video surveillance for detection confirmation

### -Level 3

Intrusion Monitoring

Video Surveillance system

Autonomous UAV



## INTRUSION DETECTION

Many intrusion detection solutions are available. A specific site oriented survey is required to select the best suited option, mainly depending on the environment.

### -Thermal Camera with Image Processing

This technology offers an all weather capability suited to most environments.

Drawback : The sensor must be mounted on a solid stand to avoid false alarms



### -Radar & Hyper-frequency Barrier

A Hyper Frequency barrier is composed of a radio transceiver and a receiver. The radio emission generates a lobe between the equipment. An intruder in the covered area will absorb radio waves and modify the lobe.

-Advantage : 3D detection capability.

-Drawback: the transceiver and receiver must be spaced of at least 2 meters. The system is rain sensitive.

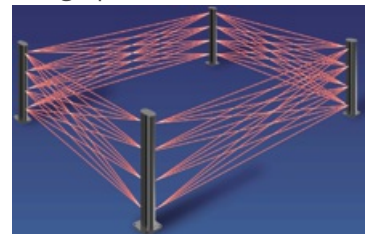
### -Infrared Barriers

Made of two opposite Laser transmitters and sensors. The system can detect a beam crossing up to 500 meters.

This type of system is particularly adapted to monitor a right line fence on a level terrain.

Advantage : The beams can be adjusted to locate the intruder on the monitored segment.

Drawback: The system is fog sensitive. The terrain needs to be level and bare of vegetation.



### -Laser Sensor

The laser barrier is created by a rotating emitter. The distance and angle of any obstacle on the ground is calculated within a range of 80 meters.

Advantages : Reduced false alarm rate (On barren terrain)

Drawbacks: The sensor is located at the center of the covered area. The system is rain and fog sensitive.

### -Buried Pressure Tube or Fiber Optic

Stepping on the sensor area generates a pressure (or optical signal) unbalance which is detected.

Advantage : Low maintenance buried system

Drawback: The detection (sensor) band must be kept clear to avoid false alarms.



## -Fence Mounted Intrusion Detection system

A variety of sensors can be mounted on a fence :

Sensing Fiber Optic

Sensing fence (partial or total)


Vibration sensors or cable

Sensing fence doubling the standard fence



Advantages : The sensing area is limited to the fence itself

Drawbacks: The existing fence must be capable of holding additional equipment with the required robustness and prevent nuisance alarms.

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