Condor Dual Technology IR & Microwave Solution

The Condor solution from El-Far combines IR and Microwave technology in a single solution and provides an invisible protection wall along an open area, building wall or fence. Implementing the Condor solution with El-Far's central command and control system significantly elevates the site's protection level by creating a complex barrier in which both technologies operate concurrently. The system, using a proprietary algorithm, ensures a very high detection rate with very low false alarm rates.

System Components

The Condor is made up of a pair (TX and RX) of columns in which Infrared Beam and Microwave technology are combined in a single unit. The columns can either be blended into the environment providing covert protection or can be visible and serve as a deterrent. Both sensing elements are located in a single casing and are connected electronically using an unique algorithm which enables it to make an alarm decision.

The solution can be used in conjunction with other smart sensors to provide multi-layered protection and deliver data fusion providing the ultimate security solution.

IR Efficiency

An IR barrier consists of a constant IR signal being transmitted from an emitter to a receiver over a specific area. When an obstacle comes between the emitter and the receiver, the IR signal is blocked and the receiver flags the event in an appropriate manner.

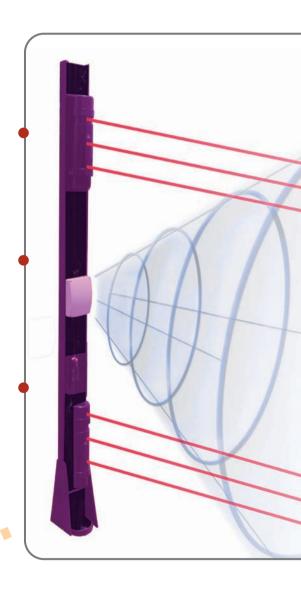
Microwave

The Microwave is the technology that functions as the "activator" due to the fact that in most cases, it is activated first. Its detection capacity is determined by a lobe that can be regulated with its own trimmer, reaching up to 8mt in diameter.

Key Advantages

There are important key advantages that come from using combined intrusion detection systems:

- Each type of sensor responds to different agents, accounting for a wider range of environmental nuisances.
- As the system enables the implementation of two technologies simultaneously, it raises the bar to filter out weaker alarm signals.
- Tailored selectivity alert decision algorithm includes IR only,
 Microwave only or combination of both technologies
- High detection resolution
- Simple and easy to install and maintain





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Features & Benefits

- Dual technology
- Selectable IR detection sensitivity
- Selectable Microwave detection sensitivity
- Selectable detection technology combination
- Highest probability of detection
- Unique algorithms ensure lowest false alarm rate
- Weatherproof casing
- Auto temperature compensation
- Dry contact output interface.
- Multiple applications
- Multiple ranges
- High Detection resolutions

Specifications

Microwave Sensitivity	Adjustable.
Sunlight	Light Filter Built-in
Alarm Contact	N.C. and N.O. relay, 0.25A/50V DC
Tamper Switch	N.C., 0.1A/28V DC
Warm-up Time	1 minute
Detection Speed	0.1-5 m/seconds
Coverage Distance	0 m x 150 m
Sensor Enclosure	IP65
Power Supply	10-15V DC
Current Consumption per sensor	24mA @12V
Operating Temperature	-20°C to 70°C
Humidity	100%

Duel Technology Solution from El-Far













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