

# D-Corative - Decorative Intrusion Detection System

*An innocent looking enclosure to your site*



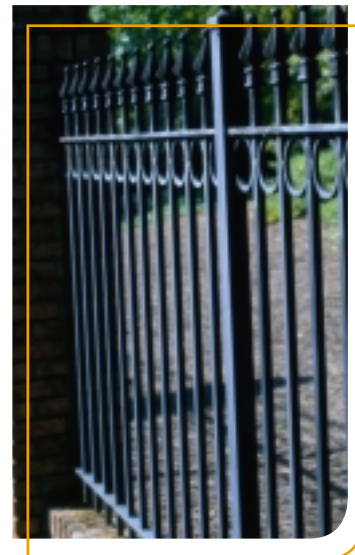
**D-Corative** intrusion detection system has been developed with the leading edge technology for intrusion detection on perimeter sites, while preserving a pleasant and non intimidating environment.

**D-Corative** was developed after years of research and field tests in which D-Fence has tested dozens of decorative fences integrated with unique sensors alert to any attempt at climbing, cutting or leaning even a minimum weight against it.

**D-Corative** unique sensors were tested and chosen in sites where other technologies (vibration, fiber optic, electrified, etc) failed to comply with high security standards. Local environmental conditions such as wind, rain, snow, humidity, corrosion and other effects caused by passing people, traffic movement, trees and animals could easily trick a perimeter system not using a strain gauge sensors and cause false alarms. This is why D-Fence unique technology is chosen to protect borders, international airports, prisons, civil compounds, industrial plants and other high security sites.

**D-Corative** provides unmatched protection for your site, facilities and assets. Featuring customized panels and supporting columns fitted with concealed state-of-the-art sensors, D-Corative is specifically designed as a non-intrusive yet highly effective alarm system for open and outdoor areas. Vandal-proof and tamper-resistant, D-Corative is immune to environmental changes, features close-to-zero false alarms, and ensures instant, accurate detection of intrusion.

- Flexible design options
- Cost effective security solution
- Innocent looking electronic fence
- Practically zero false alarms
- Round-the-clock surveillance
- Far apart field maintenance



# D-Corative

operation and immunity to environmental and operational forces. Digital analysis and processing of signals in the column together with the defined penetration profile reduce false alarms to practically zero.

**D-Corative** panels and columns form a basic module that can be duplicated as often as required, and customized to suit the requirements of any site or installation.

Panels and columns can be mounted above ground, or on existing walls and installations of varying heights. Arches also pose no problem, even for contoured corners.

**D-Corative** is linked to a remote computer which allows full monitoring of the system by receiving various indications concerning sensor status, graphic color display of the site, flashing icons which indicate event location and type, operational instructions and more. Special user-friendly computer software enables events to be monitored and logged. Any break-in attempt activates an immediate alarm that alerts the central monitor for instant response.

## *Main Components*

- Fence Module
- Decorative Panel - Offers unlimited customizing options - can weigh up to 100 kg
- Support Columns - Made of stainless steel. Designed for easy attachment on both sides of the panel
- Wireless Sensors - Concealed in the Support Column, sensors check alert signals and monitor communication to the control center. Acting as the interface between the support columns and the panels, highly sensitive gauges measure distortion caused by load changes.

## *Processing Unit*

The unit incorporates a bi-directional system of transmitters and receivers that enable digital communication with the control center. Signals transmitted by the sensors installed in the columns are analyzed and converted in real time, from analog to digital signals, facilitating the initiation of on-site activities. The unit supports eight to sixteen frames (according to site planners' requirements). Alarms will be triggered by the following: climbing up the fence using a weight exceeding 25 kg, in cases of attacking the panel by a saw, cutting implement or fire; attempts to bend panel elements with mechanical or manual devices in a given time interval.

## *Microprocessor / controller*

Samples the electronic resistance of the sensors in series, performing a comprehensive survey of all sensors in just 100 millionth of a seconds. It calculates changes in the velocity of sensor resistance, emitting an alert when speed exceeds the threshold through infiltration or an incision attempt. Slow velocity caused by temperature variations will not induce an alert.

### *Central Control System*

The system comprises an operating program as well as maintenance and programming software. A user-friendly GUI interface with a set of maps assures ease of use.

The central control system allows monitoring of the installed system so that is achieved via indications such as sensor status, graphic color display of the site, flashing icons which indicate event location, event type, operational instructions and more.



### *Applications*

- Airports
- Prisons
- Government installations
- Housing estates/Residential compounds
- Public access roads
- Power plants

### *Advantages*

- State-Of-The-Art processing unit focuses on intruders only
- Operating in extreme weather conditions
- Suitable for most designed architect fences
- Preserving pleasant and non intimidating environment
- Cost effective perimeter solution



## Physical Description

Fence Length	Unlimite
Frame Weight	up to 100 kg
Fence Height	According to customer specification
Frame Design	According to customer specification
Length of system zone	12m - 24m

## System Unit Processor

Minimum trigger force	25 KG (above the static weight of the frame) and above will activate alarm
Dry contact	N.O & N.C. 1A@48VDC
Power supply	12mA@48VDC
Communication Output	RS232 serial communication interface

## Environmental Conditions

Temperature range of operation	+72°C to -25°C (162°F to -13°F)
Storage Temperature	+80°C to -55°C (176°F to -67°F)
Corrosion	All system parts received anti-corrosion treatment according with MIL T 152 all parts are S.S
Humidity	95%
Lightning & electronic trasients	MIL STD 9094
EMI & RFI	According with MIL STD 461, 462

## Reliability and Maintainability

False Alarm Rate (FAR)	Less than one per km per three months maximum
MTBF sensor	4.7x10 <sup>8</sup> hours
MTTR	30 minutes
Warranty	10 years for the sensor