



# Electro – Guard 750 NL NON-LETHAL ELECTRIFIED FENCE

## Introduction

*DeTekion Security Systems, Inc. introduces the latest generation of the Non-Lethal Electrified Fence. The Electro-Guard 750 NL System operates on dual electrifiers to enable each adjacent conductor wire to function on a different electrifier. An alarm condition is signaled under the following conditions:*

- *when a wire is shorted to the ground*
- *when a wire is cut*
- *when adjacent conductor wires touch*

*The Electro-Guard 750 NL System employs the latest technology to display an alarm condition. A quick but powerful shock is transmitted along the electrified wires at a constant interval.*



## Operation

The Electro-Guard 750 NL consists of an energizer cabinet, high voltage wires, electrified wires, insulators and tensioners. The energizer cabinet is powered by 110 VAC and may be mounted at the fence line or remotely. High voltage wire is run from the energizer cabinet to the electrified wires. The electrified wires mount via insulators on a stand-alone support structure or an existing fence. The electrified wires are tensioned with pull insulators and tensioners. In the High Voltage Mode, the Electro-Guard 750 NL utilizes low voltage monitoring between high voltage pulses to determine the status of the fence and provide a painful but not harmful electric shock. In the Low Voltage Monitor Mode the system continually monitors for alarming conditions. When an alarm condition is detected, the unit will activate into the High Voltage Mode. If requested, the system also has the capability to inhibit the High Voltage pulses. The Low Voltage Monitoring Mode feature is environmentally friendly and consumes little energy.

## Features

- *Formidable Physical and Psychological Barrier*
- *Environmentally Friendly*
- *Latest Generation of Non-Lethal Electrifier Technology*
- *Stand Alone or Retrofit on an Existing Fence*
- *Reliable Detection Capability*
- *Superior Delay Effect*
- *Weather Resistant and Robust Construction*
- *Up to a Five KM Fence may Be Electrified with One Electrifier Unit*
- *No Fence Wires Have to Return to the Electrifier Unit*
- *Both High Voltage Mode and Low Voltage Monitoring Modes Built in*

## Energizer Cabinet

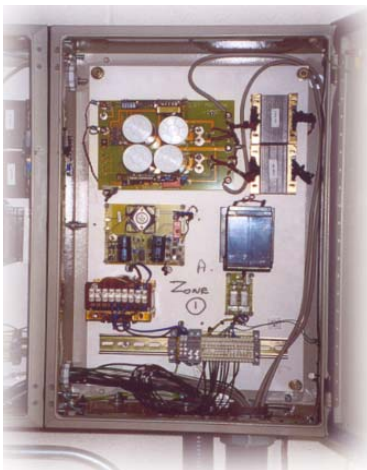
The energizer cabinet houses two electrifiers. Each of the Non-Lethal electrifiers is compliant to the International Electrotechnical Committee Specification IEC 335-2-76. This Energizer Cabinet's output is a pulsating DC voltage adjustable to 10kV between fence loops, -5kV on one loop and +5kV on the other. The maximum loop length that can operate in this mode with an energizer delivering 8 Joules measured into a 500-ohm non-inductive load is 18 miles (30km) regardless of the wire type. One Energizer can *therefore* energize a 1.65-mile (2.5km) 24-wire fence system, or a 3-mile (5km) 12-wire fence. The energizer cabinet also houses the monitor unit that provides relay outputs upon alarm actuation.

## Insulators

Nylon Post Mount Insulators are used which will break if more than 35kg of force is placed on the Insulator. The Post Mount Insulator protects against possible Sparking over. The Pull Insulators are of the same material as the Post Mount Insulators. All the Insulators are UV resistant.

## Wires

A durable stainless steel wire rope is used, which is 1.8mm thick, and woven around the support posts to inhibit the spreading of electrified wires. IEC forbids electrification of any type of barbed wire; therefore smooth wire is used.



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Specifications subject to change

## Specifications

|                                       |   |
|---------------------------------------|---|
| <b>Application</b>                    | Electrified fence free standing or fence mounted to deter, detect and delay intruder activity.          |
| <b>Zone Length</b>                    | Dependent upon system design, camera location and personnel response. Normally less than 150m. (600 ft) |
| <b>Fence Length</b>                   | 3-miles (5km) with 12 fence wires or 1.65-miles (2.5km) with 24 fence wires.                            |
| <b>Energizer Dimensions</b>           | 600mm (H) X 400mm (W) X 300mm (D)<br>24 inches X 16 inches X 12 inches                                  |
| <b>Operating Temperature</b>          | -40 C to 70 C   |
| <b>Electro Magnetic Compatibility</b> | Class IV  |
| <b>Power Requirements</b>             | 110 VAC   |
| <b>Non-Lethal</b>                     | +5kV pulsing on Loop A<br>- 5kV pulsing on Loop B   |
| <b>Alarm Detection</b>                | Ground, short and cut on wires  |
| <b>Alarm Indication</b>               | Visual (relay outputs)  |
| <b>Maintenance</b>                    | Routine Inspection  |
| <b>Warranty</b>                       | 12 Months from date of approved installation  |