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### The Electronic Bird Deterrent

- \* Up to 16 Natural Sounds such as bird alarm or distress calls and Hawk cries.
- \* On/Off Control by Light Sensor or programmable 24 Hour Clock.
- \* 94 random combinations of selectable audio frequencies disturbing to birds.
- \* Environmentally friendly - separate day and night selection of sounds for use where noise abatement is a problem.
- \* 110 volt version available.
- \* No moving parts. Sounds are moved electronically from speaker to speaker at varying durations.
- \* Programmable by external waterproof press button controls and LCD readout.
- \* Separate Volume Controls for Electronic and Natural Sounds.

Fruit Crops  
Arable Crops  
Fish Farms  
Buildings  
Airports  
Helipads  
Hangars

Rustproof  
Weatherproof  
Robust  
Reliable

Phoenix(R) Wailer MkIII

The PHOENIX WAILER MKIII is the state of the art electronic bird deterrent which creates a zone where it is uncomfortable for most species of birds to remain. The impression of Asurround sound® is created by electronically moving the 94 different combinations of electronic and/or natural sounds randomly from speaker to speaker for varying durations, at variable intervals. This unique feature lessens the likelihood of birds becoming familiar with a pattern, which often happens with conventional scare devices. The unit comprises an electronic box in which are mounted four high frequency speakers and two low frequency speakers, plus four outlets for remote speakers. Powered by a 12 volt battery, it is equipped with external controls to accurately program the unit to determine:

- \_ Duration of sound blast
  - \_ Interval between blasts
  - \_ Separate day and night selection between
    - ....electronic and natural sounds
    - ....electronic sounds only
    - ....natural sounds only
  - \_ Variable light sensitivity to determine dawn activation and dusk shut off
  - \_ Strobe light (if used) on/off periods day/night/both
  - \_ Sound selection. Any number of the sounds can be deleted or put back into the program
  - \_ Power supply level (%)
  - \_ Optional 24 hour clock control
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- \* Depending on use, will cover up to 25 acres
  - \* Suitable for agriculture, aquaculture or industrial uses.
  - \* Programmable to lessen sound output in sensitive neighbourhoods
  - \* Up to 8 remote speakers can be added to enlarge or intensify the effect.
  - \* Three different types of remote speakers available
  - \* Optional strobe light for deterrence of herons

#### Recommended Combinations

Master Unit Alone: Ideal as a general purpose deterrent giving a rotational sweeping movement of sounds around the unit.

Additional remote speakers: In intensive production situations such as aquaculture, vineyards, horticulture and soft fruits the combination of sounds moving back and forth from the master unit to more focused remote speakers more effectively protects the area. Remote speakers can be used to enlarge the zone and be directed at peripheral trees/power lines where birds tend to perch before feeding. The Wailer Mk III is a Bird Deterrent system which has proven effective against many species of birds, particularly flocking species. Its effect may be enhanced by using more conventional scare devices for particularly difficult species.

#### Technical Specifications

##### Power

12 volts/DC lead acid accumulator. 30 Amp/hour minimum (deep cycle battery) or 12 volt/2 Amp mains transformer of 11.5-15 volts/DC. Average current consumption 1 Amp. Peak current during sound 1.55 Amp. Standby 500 microamps. Polarity protected. Fused.

##### Sound Output

Audio Max S.P.L. at 500cm. 119 dB(A).

##### Range

25 acres dependent upon terrain.

##### Sound Frequency

Audio weatherproof speaker 450 Hz - 4,000 Hz. Piezo ceramic speaker 4,000 Hz - 27,000 Hz.

##### Temperature

-30'C to +70'C

##### Blast Cycle

Adjustable from 0.5 - 32 minutes.

##### Blast Duration

Adjustable from 16 - 64 sounds.

##### Size

250 x 190 x 150 mm.

##### Weight

3 kg

##### Construction

Base: High impact glass filled polycarbonate IP .65.

Cover: Transparent high impact polycarbonate IP .65.

Electronics: CMOS components for low power consumption.

We reserve the right to alter specifications without notice.

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Laboratory of Ornithology. Ithaca, New York

Made in Canada

REGISTRATION NO. 24323  
PEST CONTROL PRODUCTS ACT

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(( BROCHURE ))

Being in complete control of the situation

THE MOST ADVANCED ELECTRONIC BIRD DETERRENT SYSTEM ON THE  
MARKET

PHOENIX AIRPORT WAILER MK III

PHOENIX  
DETERRENT SYSTEMS INC.  
(AIRPORT)

ECOLOGICAL/RUST-PROOF

WATER-PROOF/RELIABLE/STURDY

An ecological, affordable, high-performance system

Causes birds to move away from airport runways

The Phoenix Airport Wailer MK III is a device that causes  
birds to move away from airports using electronic sounds as  
well as distress calls, alarm calls and calls of predators.  
This system helps create an environment that is uncomfortable  
and disagreeable for most bird species.

Electronic and natural sounds are emitted at irregular

intervals and for variable lengths of time, thereby preventing birds from growing accustomed to these sounds.

Reduces the risk of strikes

Birds pose a safety threat to airplanes especially during landing and take-off. When birds strike an aircraft travelling at high speed, the impact can sometimes be impressive. The ensuing damages are often substantial, in terms of both financial losses and loss of life. The Phoenix Airport Wailer MK III was designed to help correct this situation.

A system based on an exclusive approach  
The Phoenix Airport Wailer MK III differs from competing products in that it causes birds to move away gradually rather than startling them and driving them off, only to have the birds return later. The Phoenix Airport Wailer MK III is easy and quick to install, does not involve the use of chemicals, requires no propane, explosives or guns, can be operated 24 hours a day, and is inexpensive to run. Its effectiveness rate varies between 80 and 90% depending on the bird species.

Unique characteristics

- . Program that includes 94 different electronic sounds
- . Emits 16 natural bird calls (alarm and distress calls) and attack calls
- . Compact system with no moving parts
- . Easy to program: the unit has two buttons and an electronic display
- . Environmentally friendly
- . Adjustable volume for use near built-up areas
- . Unit can be switched on and off using 24-hour timer
- . Operates on 12 VDC or 110/220 VAC

A system that is easy to assemble and program

Basic equipment:

The case includes an electronic circuit, 4 high frequency speakers, 2 low frequency speakers and 4 outlets to connect mobile speakers.

The Phoenix Airport Wailer MK III operates on 12 VDC or 110/220 VAC. It is equipped with two external buttons and an electronic display used to program the following items:

- . variation of sound duration

- . waiting time between sounds
- . selection between day and/or night to emit
  - electronic and natural sounds
  - electronic sounds only
  - natural sounds only
- . the device can be switched on and off using a light detector or 24-hour timer
- . choice of sounds
- . indication of the remaining power supply (battery)
- . volume control

Environment Canada

The following is an account of the effectiveness of the Phoenix Airport Wailer MK III as a Bird Deterrent conducted at Yarmouth Airport. For clarification, I am presenting this to you in the form of a technical report. The Phoenix Airport Wailer MK III is very effective as a bird deterrent at airports and has the capacity to render its effective coverage area almost completely free of birds. From our experience it should not be considered a bird scare device but rather as a bird deterrent system in that it appears to create an environment of sound that birds find uncomfortable which causes them to move away from the area slowly rather than being startled and moving out immediately. When properly deployed, the Phoenix Airport Wailer MK III can be extremely effective in reducing bird numbers and thus bird strikes by aircraft at airports. @

R.G. Hounsell  
 Bird Mitigation Officer  
 Canadian Wildlife Service

Transports Canada

Recently we completed a four-week, field trial on the Phoenix Airport MK III. The unit was installed to cover 3000 feet of our main runway where we were having a problem with gulls. After the device was started it virtually sterilized that portion of the runway. There were no gulls observed in the area for the duration of the trial, but they returned the day after the unit was removed. The Phoenix Airport Wailer MK III was very effective and the fact that it requires no propane, guns, or explosives makes it a safe, maintenance-free system and a plus in our opinion. @

R. MacKenzie

Acting Airport Manager  
Yarmouth Airport, Nova Scotia

#### Technical Specifications

Power Supply	12 VDC 100 microamps off line current consumption
Power Supply Option	110/220 V Internal transformer / Solar cells panel
Audio Output	Max S.P.L. at 500 cm (16'5") 119 dB(A)
Sound Field Range	800 m (3000')
Low Frequency Speaker	Weatherproof audio range speaker 450 Hz - 4 000 Hz
High Frequency Speaker	Piezo electric Horn Tweeter 3 500 Hz - 27 000 Hz
Temperature Range	-30C to 70EC (-34EF to 166EF) Extended temperature range is optional
Light setting	Adjustable for all ambient conditions Automatic night time cutoff Adjustable for night operation
Blast Cycle	Adjustable: 0.5 minutes - 32 minutes
Blast Period Duration	Adjustable: 16.32 or 64 seconds
Size	250 x 190 x 150 mm (9 7/8' x 7 1/2' x 4 7/8")
Weight	Approx. 120 kg (265 pd) total system weight
Construction	Body: high impact proof glass, filled with Polycarbonate IP.65 Cover: transparent high impact proof Polycarbonate IP.65

Registration No. 24323 Pest Control Products Act

## A leading edge Canadian technology

PHOENIX DETERRENT SYSTEMS INC. (AIRPORT) shares a technology developed by Phoenix Agritech Ltd., giving it all the rights to manufacture, develop, distribute and sell the Phoenix Airport Wailer MK III for use at airports.

Making the most of state-of-the-art technologies, PHOENIX DETERRENT SYSTEMS INC. (AIRPORT) is pursuing its growth by investing in research to improve systems and develop new products.

## Combining expertise and experience

PHOENIX DETERRENT SYSTEMS INC. (AIRPORT) benefits from the know-how of a manager having over twenty (20) years experience in the air traffic control field and close to five (5) years of experience in the deterrent system field. Supported by a network of international agents, the company is able to offer high quality service in all the world's airports.

## An enviable reputation

PHOENIX DETERRENT SYSTEMS INC. (AIRPORT) has deployed its bird deterrent systems in a number of major airports.

CANADA Vancouver, Calgary, Halifax, Moncton, St-Johns  
(Newfoundland)

USA Boston, Salt Lake City, San Francisco, Washington,  
Los Angeles, Kennedy Space Center (still to come)

Asia Japan, Taiwan, Malaysia

Europe Holland, England, France

Russia St. Petersburg (still to come)

Iceland Reykjavik

All users unanimously agree on the reliability and effectiveness of the system which can combine the sounds according to the target species.

## A commanding lead

The Phoenix Airport Wailer MK III has an effectiveness rate that is clearly superior to that of its main competitors.



Featuring a unique design and offering the best quality-price ratio, this system distinguishes itself by the intermittence of the electronic and natural sounds that it emits and the dissuasive effect that it has on birds.

Would you like to learn more about the PHOENIX AIRPORT WAILER MK III?

Contact our agent or consult our web site at the following address: <http://www.d4rm.com/phoenix>

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