

# Bird Control In Kiwifruit Product Guide - 2022

**MAINTRAC**   
HELPING YOU GROW **GROUP**™



## »» ABOUT US

Maintrac Group, helps industries grow with innovative solutions for growth. We supply a range of innovative products developed right here in NZ, as well as brands sourced from around the globe.

View more on our website: [www.maintracgroup.com](http://www.maintracgroup.com)

## »» OUR VALUES

- ✓ Honest with integrity
- ✓ Always reliable
- ✓ Share knowledge
- ✓ Passion
- ✓ Think outside the box
- ✓ Care for the environment
- ✓ Care for the safety of others

## »» WHERE WE ARE

Our head office is in Westport on the beautiful West Coast of New Zealand.

Products may be shipped from other locations around NZ, to ensure fast service and prompt delivery to you.

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# » SOLVING THE BIRD PROBLEM

Loss of Kiwifruit flower buds to birds, at bud burst, can occur very quickly and can be devastating to orchards, causing loss of revenue for both growers and the kiwifruit industry. Fortunately there are a variety of methods available for protecting kiwifruit orchards from pest birds.

## » SOLUTIONS

There are a wide range of solutions available for deterring birds from kiwifruit orchards. Each have their advantages and disadvantages. The best solutions to use often depend on the size of the blocks, how and where shelter or artificial shelter is used, trellising system and the bird species causing the problem. Ask us for advice for your orchard. Some common solutions as below:

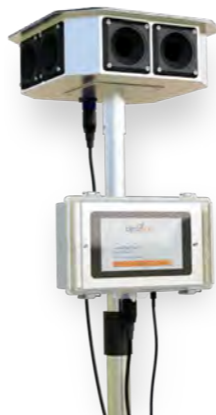
### Bird Repellent Sprays:

These are most commonly applied directly to the surface the birds eat, in order prevent or deter birds from eating the buds or surface they are applied to. Sprays can be effective if applied at the appropriate time. They do have limitations in where UV or rain can decrease or restrict their effect. In most cases birds need to consume some of crop before being deterred, which can result in some initial bird damage.



### Bioacoustic - Bird Sound Deterrents:

These use a range of sounds to deter birds including: bird alarm, predator and harassment sounds. These sounds work well on most bird species that cause problems in kiwifruit. They are ideal for covering larger blocks. Blocks divided by shelter, may need multiple speakers placed in different areas. Some sounds are bird species specific so it is important to identify the bird species causing the problem. These units are covered by noise regulations in some areas, check with your local council for your area.



### Gas Guns - Bird Bangers:

These use loud bangs which deter most bird species. They are an effective way of deterring birds from large open areas. Portable units can be mounted on a quad or ATV and fired as required. The noise can be an issue in some locations, near neighbours. These are often governed or restricted by local bylaws, so check with your local council.



### Lasers - Handheld & Automatic:

With advances in technology, lasers are now available for bird scaring use in orchards. Birds perceive the beam as a solid object chasing them as it moves across surfaces around them. This deters them from the area covered. Lasers have the advantage of being virtually silent. They do need to be in direct line of sight of the areas requiring coverage, so can have their limitations in areas divided by shelter or artificial shelter.



### Pyrotechnics - Banger & Screamer cartridges:

These are a great way of manually moving flocks of birds from an area. A good way to add effect to other bird deterrents. Like other sound deterrents, they can also be covered by local noise regulations.



### Predator Kites & Visual Deterrents:

While not always effective as a stand alone solutions, these help add effect to other deterrents. The predator kites work in well with Bioacoustic deterrents as the birds associate the predator sounds with the kite.

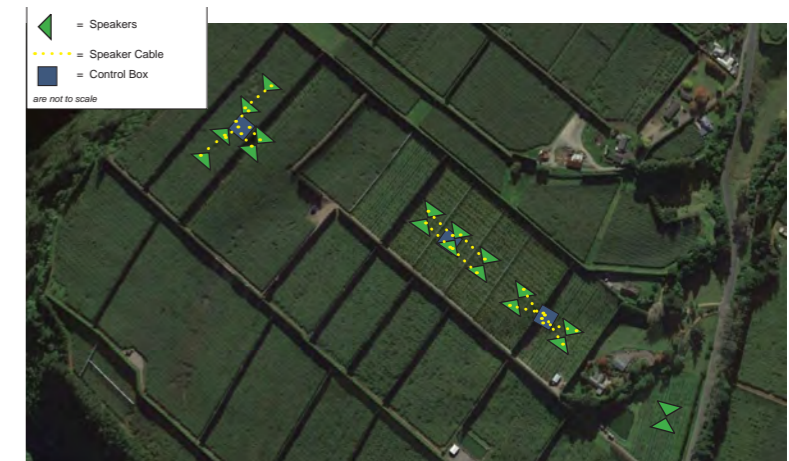


### The Importance of Synergy:

Multiple bird deterrents work together having an effect on birds that is far greater than using just one deterrent or another. Using deterrents that target more than one of the birds senses (sight, hearing, taste smell) is more effective. Birds navigate by sight and communicate with sound. Disrupting both (e.g. use of laser and bioacoustic deterrents together), causes them to feel more threatened than targeting just their sight or hearing alone.

## » ORCHARD LAYOUTS

Send us a orchard map or address and we can make a recommendation for you based on a Google Earth view. We will provide a suggested layout plan and corresponding pricing.



# » BIRDZOUT BIOACOUSTICS

Building on the success of sound deterrents, Birdzout Bioacoustics make sonic bird control even more effective and easy. Touch screen controls allow access to a range of time, sound selection, delay and other settings. Simple plug in speakers and power source, for ease of installation. Using digital randomisation and automatic changing of the sounds every few days, prevents bird habituation.

## TIP

Combine with a Birdzout Auto Laser for the ultimate bird scaring package.



## Digital Controls

For ease of setup and advanced control



## Effective

Targeted randomised sounds



## Duplex Speakers

For increased clarity and coverage



## 12 Months Warranty

For your peace of mind

### Birdzout 4S Flexi

Ideal for protecting areas of up to 2 hectares.

Package includes:

- Birdzout bioacoustic control box
- 2 x birdzout duplex speakers
- 2 x 30m speaker leads
- Mains power adapter
- Battery clips for 12 volt battery



### Birdzout 8S Flexi

Protects areas of up to 5 hectares. Ideal for use in blocks divided by shelter belts as the separate speakers can be run into different blocks.

Package includes:

- Birdzout bioacoustic control box
- 4 x birdzout duplex speakers
- 4 x 30m speaker leads
- Mains power adapter
- Battery clips for 12 volt battery



### Birdzout 8S Octi

Protects areas of up to 5 hectares. The all in one, octi speaker enclosure is great for use in larger single block areas.

Package includes:

- Birdzout bioacoustic control box
- Octi speaker tower
- 3 metre speaker lead
- Mains power adapter
- Battery clips for 12 volt battery
- Wall / post mounting brackets
- Tripod available separately

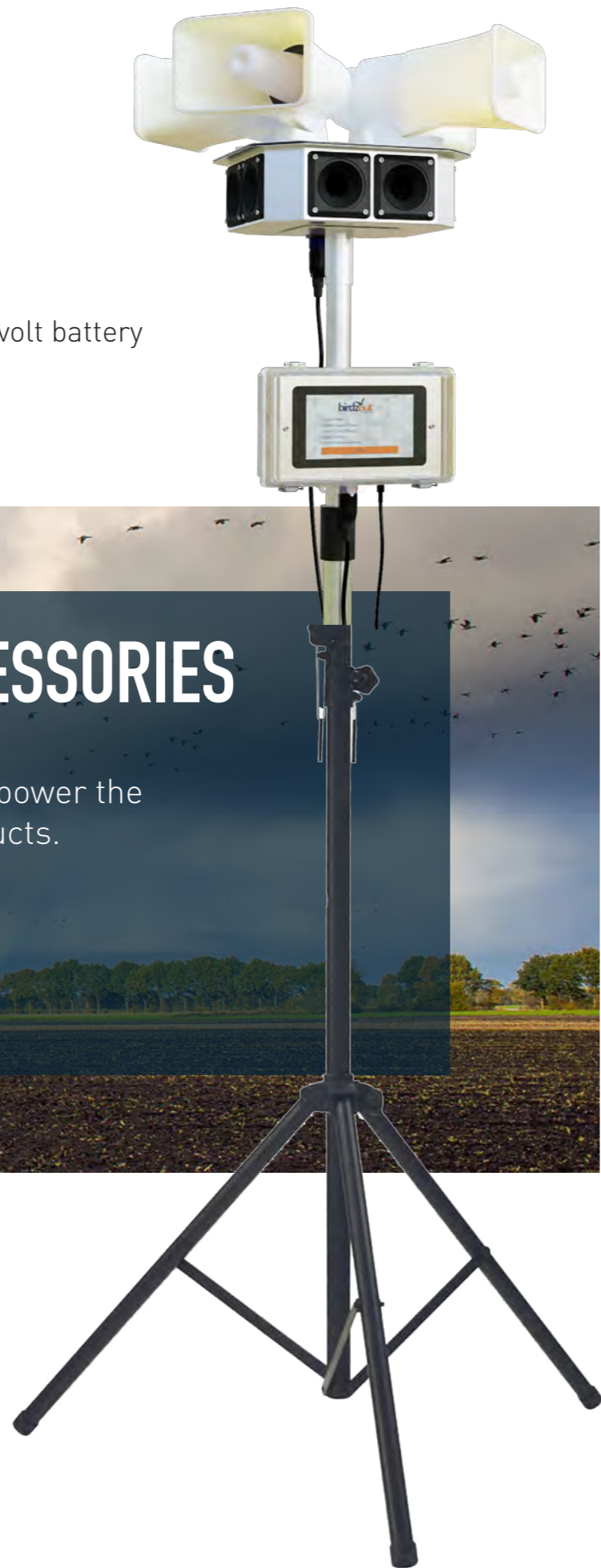
See accessories on pages 8 - 9

## Birdzout 12S

Protects areas of up to 10 hectares.  
Ideal for use in large single block areas.

Package includes:

- Birdzout bioacoustic control box
- Birdzout octi - 8 speaker tower
- 4 x birdzout horn speakers
- 3 metre speaker lead
- Mains power adapter & Battery clips for 12 volt battery
- Wall / post mounting brackets
- (Tripod available separately, see below)



## »» BIOACOUSTIC ACCESSORIES

A range of accessories to support and power the Birdzout Bioacoustics and Bird-x products.

## Birdzout Tripod Kit

- Tripod kit to suit Birdzout 8S Octi and 12S
- Extendable up to 3.5 metres
- Includes mounts for speaker tower and control box.
- Includes ground pegs

## Birdzout Solar Package – 26ah

Complete 12 volt power supply.  
Suitable for running Birdzout Bioacoustics and Bird-x Sound Deterrents

Includes:

- 40 watt solar panel with charge controller
- 26ah SLA battery
- Battery case
- Leads



## Birdzout Flexi Speakers

Replacement speakers for the Birdzout Flexi units, or add 2 additional speakers to an existing 4S Flexi unit to create an 8S Flexi. (Adapter cable available separately).



## Birdzout Flexi Speaker Leads

Replacement leads, or increase the length of leads to position speakers further from the control box.  
Available in 30m, 50m and 100m lengths.



**TIP**

Unit power draw and operating time required, will govern the size solar package needed.

## Birdzout Solar Package – 38ah

Complete 12 volt power supply.  
Suitable for running Birdzout Bioacoustics and Bird-x Sound Deterrents.

This larger kit is better suited to units requiring longer daily run times or use in winter (or lower light conditions).

Includes:

- 80 watt solar panel with charge controller
- 38ah SLA battery
- Battery case
- Leads



# » BIRDZOUT BIRDERASERS

The Birdzout BirdEraser is a long range laser, designed for moving flocks of birds away from large areas. Birds perceive the green beam as a solid object that is threatening and fly away from it. From individual birds to large flocks, the BirdEraser is a useful tool for manually moving birds away from specific areas, as required.

## TIP

Most effective range is in dull light and when used at an elevated point to shine down on the birds.



### Easy To Use

Simply shine around the birds



### Add & Combine

A great way to backup other deterrents



### Effective

Deters most bird species



### 12 Months Warranty

For your peace of mind

## Birdzout BirdEraser MK2 – Standard

### Key Features:

- High quality, class 3B laser
- Push button activation
- Infrared radiation filter
- Range of up to 3000m in low light conditions.
- Supplied with 2 rechargeable batteries, charger and carry case



## Birdzout BirdEraser MK2 – with Scope

### Key Features:

- High quality, class 3B laser
- Push button activation
- Infrared radiation filter
- Scope, is very useful for identifying or lining up the target before pressing the button
- Range of up to 3000m in low light conditions
- Supplied with 2 rechargeable batteries, charger and carry case



# »» BIRDZOUT AUTO LASERS

Birdzout auto laser units are a highly effective way of deterring birds from large areas. These are setup to automatically cover an area from a central point or one side of a crop area. These lasers pan and tilt over an area which is set as required. Saving time, money and labour, a cost effective bird deterrent system.

## TIP

Pair with a Birdzout Bioacoustic deterrent for the ultimate bird scaring package.



### Easy To Use

Simple controls for easy setup



### Programmable

Set coverage area as required



### Effective

Deters most bird species



### 12 Months Warranty

For your peace of mind

## Birdzout BZAL-80 - Auto Laser

### Key Features:

- High quality, class 3B laser
- 350 degree rotation with pan and tilt.
- Weatherproof - IP65 rated
- Laser distance in sunlight: up to 100m
- Area covered: up to 3 hectares in daylight
- 80 preset point positions
- Package includes: Birdzout auto laser unit, controller with keypad and joystick, emergency stop switch, power supplies for mains and 12v connections.



## Birdzout BZAL-500 - Auto Laser

### Key Features:

- High quality, class 3B laser
- 350 degree rotation with pan and tilt.
- Weatherproof - IP65 rated
- Laser distance in sunlight: up to 250m
- Area covered: up to 15 hectares in daylight
- 80 preset point positions
- Package includes: Birdzout auto laser unit, controller with keypad and joystick, emergency stop switch, power supplies for mains and 12v connections.



Laser coverage is dependent on the light conditions, bird pressure and size and shape of the area.  
Ask us for advice on the best way to protect your orchard.

See accessories on pages 14 - 15



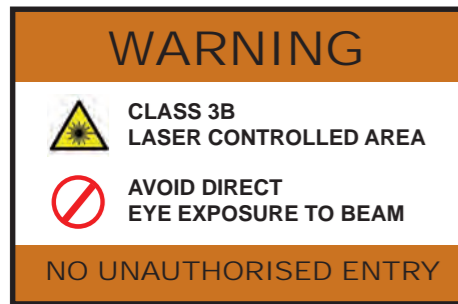
# »» AUTO LASER ACCESSORIES

A range of accessories to support and power the Birdzout Auto Lasers.



## Birdzout Laser Safety Sign

- Weatherproof durable sign
- Use for awareness of the lasers
- 300 x 450mm



## Birdzout Laser Extension Cable

- 10m extension lead
- Suitable for the Birdzout Auto Lasers
- Useful when mounting the Laser higher than 4m off the ground



## Laser Safety Glasses - Fitover

- LB6 level protection for use with Birdzout lasers
- Professional medical / industrial grade glasses
- Work well with or without prescription glasses
- Compliant with Australian, New Zealand and International laser safety standards
- Comfortable, lightweight with adjustable legs & head strap
- Flexible frame for durability
- 24 month warranty on frame



## Birdzout Solar Package – 38ah

Complete 12 volt power supply. Suitable for running Birdzout BZAL-80 Auto Laser.

Includes:

- 80 watt solar panel with charge controller
- 38ah SLA battery
- Battery case
- Timer to control the laser run time
- Leads



## Birdzout Solar Package – 50ah

Complete 12 volt power supply. Suitable for running Birdzout BZAL-80 and BZAL-500 Auto Lasers

Includes:

- 120 watt solar panel with charge controller
- 50ah SLA battery
- Battery case
- Timer to control the laser run time
- Leads

## Birdzout 12v Inline Timer

12 volt inline timer to control the runtime of an Auto Laser 80 or 500. For use with mains power adapter or your own battery or 12 power source. In a sealed enclosure for use outside. Includes wall / post mounting brackets.



## Birdzout Laser Mounts

Suitable for mounting of auto lasers. 4m Tripod and 5m Quadpod options available. May require additional bracing or support in high wind areas.

Includes:

- Tripod components
- Laser mounting plate
- Fasteners
- Ground pegs



**TIP**  
Solar panels are best mounted facing north on a 45 degree angle.





# » BIRD-X SOUND DETERRENTS

Bird-X in the USA have been supplying effective and humane bird control solutions for over 50 years. Use of natural bird sounds have been used for many years as an effective way to deter birds. Bird-X units are designed for long life in outdoor conditions as well as playing high quality and realistic bird sounds for effective bird control.



**TIP**  
Combine these with a kite package or other visual deterrent for best results.



## Easy To Use

Simple controls for easy setup



## Custom Sounds Options

Large range of sounds available



## Effective

Effectively target a variety of birds



## 12 Months Warranty

For your peace of mind

### BirdXPeller Pro Package

Ideal for areas up to 1 hectare.

Includes:

- BirdXPeller Pro control box with built in speaker
- Extra extension speaker, with 30m of cable
- Customised sound chip with 8 sounds
- 230v power supply & battery leads for 12v battery power



### Super BirdXPeller Pro Package

Ideal for areas up to 2.4 hectares includes:

- Super BirdXPeller Pro control box - with custom chip socket
- 4 extension speakers, each with 30m of cable
- Customised sound chip
- 240v adapter & battery leads for 12v battery power
- Additional sound chips and speakers available separately.



# »» PURIVOX GAS GUNS

Purivox in Germany have been manufacturing quality gas guns for over 30 years. Designed and built to last, these gas guns will give you many years of problem-free bird control. All Purivox gas guns are electronically controlled for reliability, safety and peace of mind.

## TIP

Set gas guns to fire at 3 shots per cycle with a longer delay interval, for best results.



### Easy To Use

Simple controls for easy setup



### Efficient

Economical use of gas and batteries



### Effective

Deters most bird species



### 12 Months Warranty

For your peace of mind

#### Purivox TriplexV

Light weight and portable, can easily be moved around blocks.

- Covers 1 - 5 hectares
- Shot volume: up to 146 decibels at 1m
- Easy-set digital timer
- Volume adjustable
- 4 shot settings
- Adjustable delay intervals
- Uses 2 x 6 volt lantern batteries

#### NEW - Easy-Set Timer

Purivox gas guns now have the option of an easy set timer. Settings can be set on an Android or iPhone app, and quickly transferred by NFC to the timer. Ideal for ease of setup, or when using multiple gas guns.

#### Purivox Salute

Manual push button version of the TriplexV (no timer). Can be mounted on a quad or ATV and fired as required.



#### Purivox Carousel

Ideal for large open areas, a rotating gas gun increases coverage and confuses birds, as they do not know where the next shot will come from.

- 2.1m tripod
- Covers 4 - 10 hectares
- Shot volume: up to 146 decibels at 1m
- Easy-set digital timer
- Volume adjustable
- 4 shot settings
- Adjustable delay intervals
- Optional mirror pyramid visual deterrent
- Uses 2 x 6 volt lantern batteries



# » BIRDZOUT PYROTECHNICS

Pyrotechnics are banger or screamer cartridges fired from a hand held launcher pistol. Our cartridges are imported from a specialist manufacturer in Germany, for reliable and consistent quality. Pyrotechnics are an effective way to add to any bird control program in crops.  
 Note: users need to be 18 or over.



**TIP**  
 Fire pyrotechnics at a 45 degree angle to maximise distance.

These products must be kept in locked storage while not in use.  
 Keep away from any sparks or ignition sources.



## Portable

Fits in a small carry case



## No Licence Required

For users aged 18 and over



## Effective

Safer and more effective than shooting



## Add & Combine

Supports other deterrents

### Single Shot Launcher

The Single-Shot Launcher is the standard launcher for projecting Bird Bangers and Screamers. A single cartridge and a 6mm blank are loaded in the Launcher when firing. The blank automatically ejects during firing. Proof of age required when ordering.



### Blanks

Bird Bangers and Screamers are fired using .22 Calibre Blanks (6 mm). Pack size - 100 x 6mm blanks.



### Banger & Screamer Cartridges

Bangers explode with a very loud "BANG" that scares pest birds and wildlife. These travel around 25 to 30 metres before exploding. Screamers make a very loud "SCREECH" sound that scares pest birds and wildlife traveling around 75 - 90 metres as they scream. Pack size - 50 x 15mm cartridges of either bangers or screamers.



### Complete Pyrotechnic Package

- A complete package to get started using pyrotechnics. Includes:
- Single shot launcher
  - Pack of 50 banger cartridges
  - Pack of 50 screamer cartridges
  - Pack of 100 blanks
  - Lockable carry case (also available separately)



## »» JACKITE PREDATOR KITES

Predator kites are a life-like bird of prey, commonly flown on a short 2 metre line from a telescopic pole where they fly like a real bird.

These are our most popular and successful visual bird deterrent. Combine with a Bioacoustic or sound deterrent for best results.

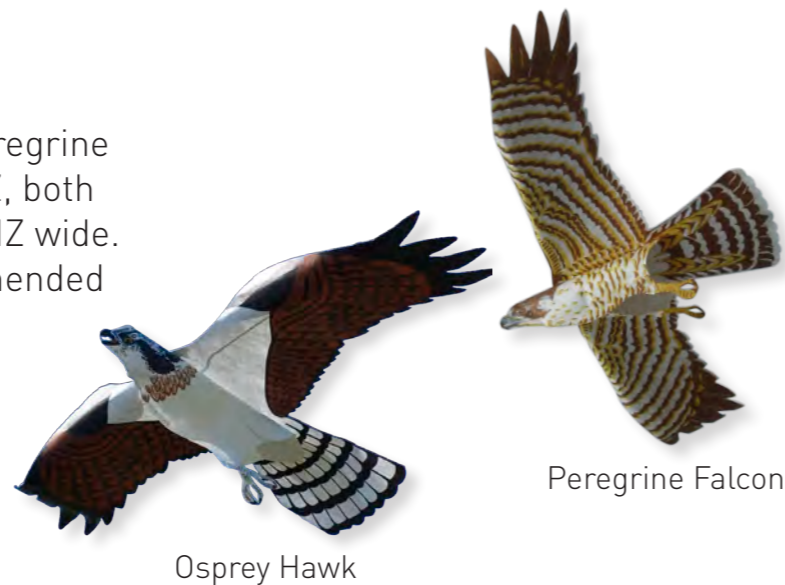
## »» BIRDZOUT VISUAL DETERRENTS

Visual bird deterrents are one of the oldest and most common methods of deterring birds. Using frightening objects, along with the combination of flashing light and movement, scares birds away from the areas covered. Although, not necessarily 100% effective when used on their own, visual deterrents are a great option for adding effect to other bird deterrent systems. Multiple birds deterrents work together in synergy, to create an effect on the birds far greater than the effect of the individual deterrents, used on their own.

### Individual Kites

Available as either a Osprey Hawk or Peregrine Falcon. While neither bird is native to NZ, both have proved an effective bird deterrent NZ wide. If using more than one kite, it is recommended to have each type, for variation.

- Made from Tyvek - a tough, light weight plastic
- Fly in up to 50km/h wind gusts.
- 1100mm wing span



Osprey Hawk

Peregrine Falcon

### Kite Packages

The best option for flying predator kites. Each kit includes a predator kite, telescopic pole and pole mounting bracket.

Choose from the options below:

Predator kite: Peregrine Falcon or Osprey Hawk  
Telescopic pole: 5.5m, 8.3m or 9.2m height  
Pole Bracket: Ground / Stake mount or Post / Wall mount

Poles and brackets can be purchased separately.



Telescopic Pole

Wall / Post Bracket

Stake Bracket

### Flash Tape

Flash tape uses light, movement and sound to create an environment that is very annoying to birds. The holographic tape is highly reflective with multi-coloured flashes of light, the red & silver tape creates a flashing effect which is also an effective bird deterrent. In 150m rolls.



### Scare Eyes

The scary eyes and reflective tail strike fear into birds scaring them from the area covered.

- 3 pack includes white, yellow & black
- 500mm diameter tough balloons - reusable
- red reflective tail



### Birdzout Reflector

The Birdzout reflector bird scarer is a wind powered visual deterrent that scares birds with flashes of sunlight. Unlike people, most bird species can see into the ultra-violet light spectrum. Flashes of sunlight make birds confused, uncomfortable and irritated so that they avoid the area covered.



Helping industries grow since 1987  
with innovative solutions for growth



0800 654 320



info@maintracgroup.com



www.maintracgroup.com

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