



BIRD ALERT



WildDetect

www.wilddetect.com

Daugaard Elektronik ApS | Bygmestervej 14 | DK-5750 | VAT: DK-71082628 | Tlf: +45 61419143

The great challenge

The problem

Birds can be nice to look at, but in a number of situations they can be an inconvenience. Some of these are due to their appetite, faeces and noisy behaviour. They can cause great damages when they settle in the wrong place, which can result in financial losses. Therefore, there can be a great profit in scaring the birds away from a certain area.

Traditional products

The existing methods for bird scaring often have a limited effect, because the birds gradually habituate to the used equipment. Mechanical units are often used for traditional bird control that through a timer activates the scare tools. The birds often habituate within a week or two by which the scare tools lose effect. Traditional scare tools as speakers and gas cannons need to be regularly moved to have an effect.

BirdAlert® is the solution

The best solution to bird problems is preventive measures. It does not need to be time-consuming nor problematic. BirdAlert is an intelligent scarecrow that birds find it difficult to adapt to. Through an advanced microphone system BirdAlert listens for bird noises. When birds are detected, BirdAlert activates the scare tools to scare the birds away. This method extends the effect because the system only activates when necessary which avoids habituation. BirdAlert comes with a built-in audio library with distress call from the individual bird species. This method has proven very effective. Therefore, we recommend that the box is used along the BirdAlert speaker so the effect from the distress call can be utilized.



How BirdAlert works®

1

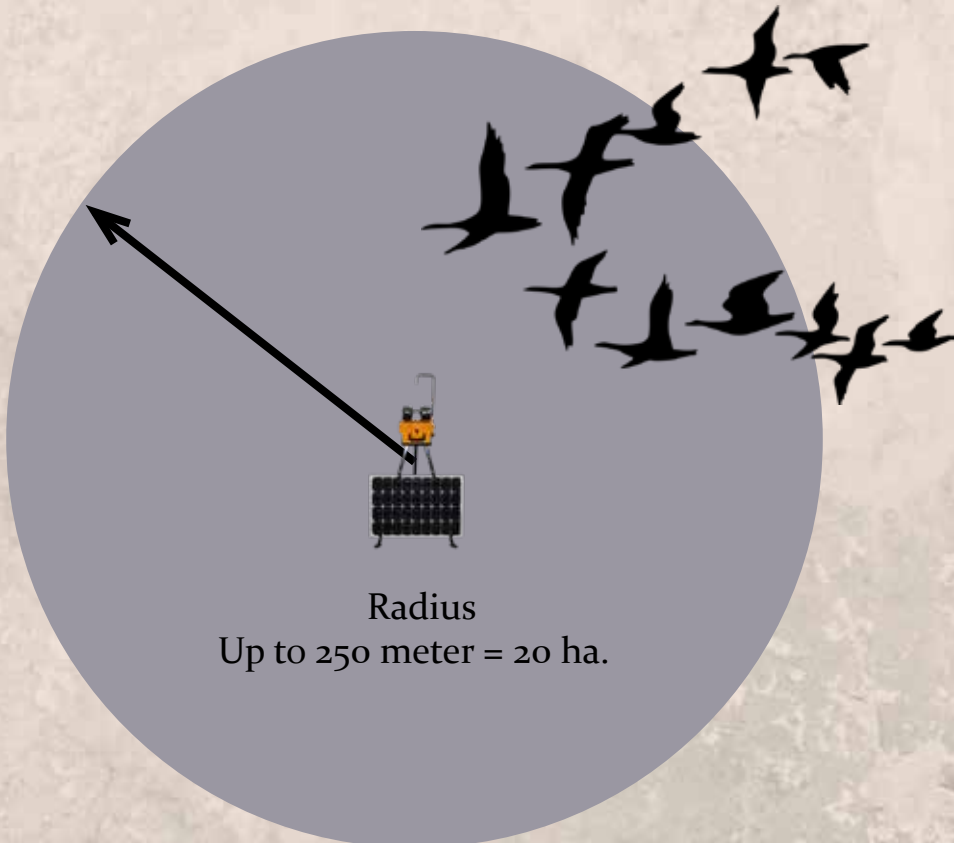
The birds close in on the area with their characteristic calls, which are their unique acoustic fingerprints.

2

BirdAlert® identifies the birds before they even land. Through the different sounds BirdAlert makes them avoid the area

3

BirdAlert® analyses if the sought out effect is achieved and if not BirdAlert® reactivates.



About BirdAlert®

Everyday use

BirdAlert is placed in the wanted area and set up through the web app. After this BirdAlert will detect when the chosen birds are within a radius of up to 250 meters. After detecting which bird species are nearby BirdAlert will use the scare tools to scare away the birds. For instance, speakers or gas cannons. If BirdAlert continuously registers activity it will reactivate the scare tools.

About the box

The box is closely sealed and should out of consideration to humidity, insurance and lifetime never be opened. BirdAlert Is continously updated with new software to improve the effect of the system. On the back of the box are 5 input ports where up to 5 different scare tools can be connected – for instance speakers, gas cannons etc.

Web app

In the web app you can set up BirdAlert, keep tabs on the battery level and much more. You can view how many times BirdAlert has detected birds – and which species. The app is your tool to view what happens when you're not around. Because BirdAlert is set up through the app there is no need for manual adjustment. Once the box is set up everything can be done through the app.



Tekniske specifikationer

Product Name	BirdAlert®
Producer	Daugaard Elektronik ApS
Use	BirdAlert comes with a build in lead-acid 33Ah battery, that on its own can supply the system for up to a week. There is an opportunity to buy a solar panel, a 230V charger and a cable to charge from an external battery.
Materials	BirdAlert is made in HPX plastic and the microphone is made of stainless steel. Both are meant for outdoor use all year around.
Operation	<p>The range of the microphone is up to 250 meters depending on the bird species and surrounding conditions.</p> <p>The box is suitable for use in difficult places for instance of roofs because the app allows remote control. Communication with the box is through the telecommunication network.</p> <p>BirdAlert is continuously updated to ensure the best possible outcome at all times.</p>
Weight	15 kg.
Dimensions	30cm. x 25cm. x 60cm.



Where to use BirdAlert®

BirdAlert is developed to detect and scare geese, rooks, gulls and starlings but experience show that other bird species as crows, jackdaws and black birds can be detected. This combination of bird species has resulted in a various number of situations where BirdAlert can be used. For instance:

In Agriculture	To protect crops on fields or silage pits
In Christmas tree plantations	To protect the vulnerable top shoots
På industritage	As a protection against a colony of gulls
At cardealships	To avoid bird droppings on the cars
In fruit and berry plantations	As a protection against hungry birds that eat the fruit
At Municipalities	To help frustrated citizens
Green/big areas	To keep the birds away



Bird species that can be scared

Rooks

Rooks often gather in big colonies and can be very inconvenient due to noise, bird dropping and their big appetite.



Gulls

Gulls are very noisy and often build their nests on various roofs to the considerable inconvenience of companies, which often end up with ruined buildings etc.



Geese

Geese are often a big problem in fields because a large group of birds can eat a lot of crops. In addition to this, geese are a problem on golf courses, in cemeteries, parks etc.



Starlings

Starlings often come in large flocks and often settle in stables or on fields and fruit plantations where they eat as much as they want.



Input options

Speakers

Our popular and effective standard choice! Utilizes the unique audio library of the box to scare away the birds with their own distress calls. The speakers can be set and play up to 120 dB. The build in algorithm ensures that BirdAlert doesn't play the same sounds continuously but instead varies the sound to avoid habituation.

Gas cannons

BirdAlert works with different gas cannons and BirdAlert can control when these shall be activated to avoid habituation.

Kite controller

The often used hawk kites can be mounted in a kite controller that automatically raises and lowers when BirdAlert detects birds. This ensures that the birds don't adapt to the hawk kite which often happens.

Eagle Eye

Eagle Eye reflects the ray of the sun in a varied pattern.

Scareman

Scareman is an inflatable scarecrow with built in light



Tilkoblingsudstyr



Eagle Eye

Scareman



Kite Controller



External Battery



Gas Cannons

Licens Plans

Bronze

- Data M2M SIM card
- Software updates
- Acces to the webapp on www.birdalert.dk
- Statistical data in the app is updated once an hour and can be viewed 30 days back.

The price is 80€ per. year. All boxes are born with a Bronze license and the first 12 months license is included in the purchase price.

Silver

- Includes Bronze-licens and..
- ... monitoring of BirdAlert with error messages to an email address
- ... Phonesupport in normal business hours 09:00 – 15:30
- ... the possibility to get data extracted in reports up to twice a year.

The price is 133€ per. year

Gold

- Includes Silver-licens and...
- ... The possibility for customized app with own logo and own administration access to the web app.
- ... The possibility for user hierarchy in the app.
- ... The ability to get the look of BirdAlert customized to fit the “customer” company, logo, colors etc ..

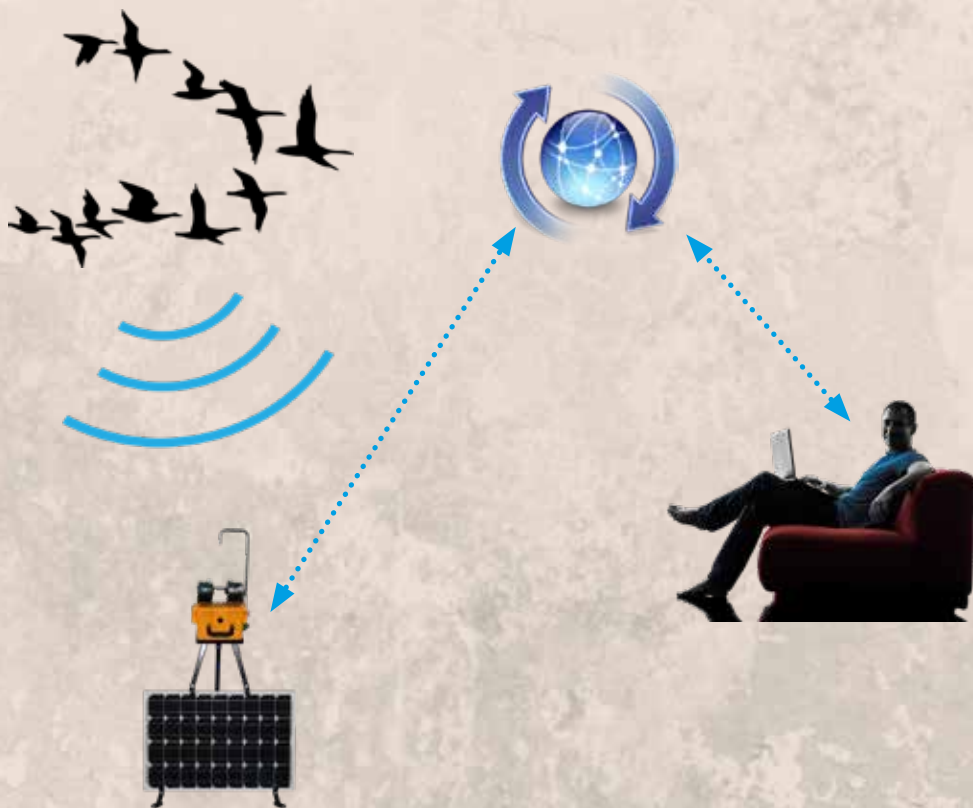
The price is after offer and will consist of an creation cost and an ongoing subscription.



Webapp - www.BirdAlert.dk

BirdAlert® is an IoT product with an included web app. With the web app you have many options:

- ◇ Choose which bird species to detect and scare.
- ◇ Adjust the volume of the speakers.
- ◇ Decide at what times BirdAlert® should be active.
- ◇ Make power on/off clock for the various connected products.
- ◇ Manually activate the connected scaretools
- ◇ See bird activities for the past 30 days.



www.BirdAlert.dk

You can find our web app at www.birdalert.dk. Here you can create an account with your email and link your BirdAlert® to the account. You can use our web app on any device that has a browser: phone, tablet and computer

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Det siger kunderne !

"I recommend it, as it happens in a humane way, it stresses the birds and it can be used through a long season. The combination has worked really well for us."

Peder J. Madsen, CEO Koldingford Hotel

We started by buying 3 BirdAlerts® to try it out at 3 of our departments. We love Bird-Alert® and it has a good effect in keeping gulls and rooks away. Subsequently, we purchased additional BirdAlerts® for several of our locations.

**Morten Christensen, Qualitymanager
Ejner Hessel, Mercedes Denmark**