

Попниколова, Петранка А.

From: Богоева, Юлия К.
Sent: 10 ноември 2023 г. 15:59
To: Попниколова, Петранка А.
Cc: Александров, Пламен Г.; Лазарова, Милена Т.
Subject: FW: Система за прогонване на птици - AVIX Autonomic Mark II - Enigma Guard
Attachments: AVIX Autonomic Brochure.pdf; Testimonial_Electrical Substation_AVIX Autonomic.pdf

Importance: High

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From: salesmanager@enigma-guard.com <salesmanager@enigma-guard.com>
Sent: Friday, November 10, 2023 3:55 PM
To: commercial <commercial@npp.bg>
Cc: Попниколова, Петранка А. <popnikolova@npp.bg>; 'Lachezar Daykov' <dyakov@enigma-guard.com>; Nikolay Kabakchiev <n.kabakchiev@enigma-guard.com>
Subject: Система за прогонване на птици - AVIX Autonomic Mark II - Enigma Guard
Importance: High

Уважаеми Дами и Господа,

Във връзка с обявената пазарна консултация № 52613 – „Доставка и монтаж на автоматични сензори за детекция и прогонване на птици, чрез акустичен подход“, бихме искали официално да ви запитаме дали може да участваме в консултацията и последващата обществена поръчка, с предлаганото от нас решение: **Лазерна система за отблъскване на птици – AVIX Autonomic Mark II.**

Системата е базирана на високо прецизна лазерна оптика, която произвежда постоянен лазерен лъч, проектиращ ярко зелено лазерна проекция. Птиците възприемат движещата се проекция като физически обект и когато тя се приближи, птиците отлитат надалеч, защото искат да избегнат удара.

Тъй като в предварителното описание на консултацията е посочено изискване за акустичен подход, най-учтиво ви молим да ни дадете възможност да ви запознаем с предимствата на AVIX Autonomic Mark II и да участваме в конкурса. Имаме готовност и да ви демонстрираме работата на лазера на място, чрез налично Демо оборудване.

Системата е най-ново поколение автономно и интелигентно решение за справяне с проблема с птиците, с множество предимства пред конвенционалните методи като акустични системи, мрежи и др.

Основни предимства на AVIX Autonomic:

- Чисто и безшумно решение.
- Запазва своя възпиращ ефект във времето. Без привикване от страна на птиците в дългосрочен план.
- Незабавни положителни резултати с бърза възвръщаемост на инвестицията
- Непрекъсната защита 24/7, в целия охраняван от птици периметър.
- Пълно покритие и зонироване на охранявания терен. Възможност за подробни настройки на работата на лазера според нуждите на отделните зони.
- Чиста среда и покрив - Покривът остава чист, защото там вече не кацат и обитават птици. Без боклук, пера и птичи изпражнения на/от покрива. Без запушени отводнителни канали и дренажни системи за отвеждане на дъждовните води. Дρασично намаляване на разходите за почистване на покрива. Спестени десетки хиляди лева за поддържане на чиста среда.
- Лазерът работи автоматично, не се изисква допълнителна работна ръка
- Методът на работа на системата се базира на хуманно отношение към птиците.

На линка по-долу може да видите нагледно работеш AVIX на електрическа централа:

<https://youtu.be/eQnnDfInqG4>

В линка прилагам референция за подобен проект, изпълнен с предлаганото от нас решение, както и информация за системата.

Енигма Гард е сетрифицираният и оторизиран представител на фирмата производител – Bird Control Group, Холандия, с множество успешно реализирани проекти с AVIX Autonomic в страната, а от скоро и в региона.

Ще се радваме да получим обратна връзка и при възможност да работим заедно.

Успешен ден!

Поздрави,
Юлия Петкова

Kind Regards:

Julia Petkova

Foreign Trade Manager

Enigma Guard Ltd

Mob: +359 87 66466 19

Salesmanager@enigma-guard.com

www.enigma-guard.com



AVIX Autonomic 
Mark II



Intelligent automated bird repellent system

Repel birds 24/7 and achieve up to a 90% bird reduction

Laser bird repelling capability

AVIX Autonomic is the newest generation of automated intelligent laser bird repellents. It is an effective solution to repel birds in an animal-friendly way. The AVIX Autonomic covers the area that needs protection from birds continuously. Birds perceive the approaching laser as a physical danger and avoid the area. The laser bird repellent has proven to be effective over time without habituation. Our technology is used in 90 countries around the world.

Remote control

It is possible to view the system status via the Status & Control app by AVIX and switch it ON/OFF remotely. A user can also receive a push notification on their phones or by email if the unit is disconnected from power. Through the advanced AVIX Connect tool, it is possible to track the system's operating hours using a Bluetooth connection. This allows to check if the laser is performing the way it should without visiting the customer's location. This way errors are tracked down quickly from any location, reducing downtime to a minimum.

Connect wirelessly

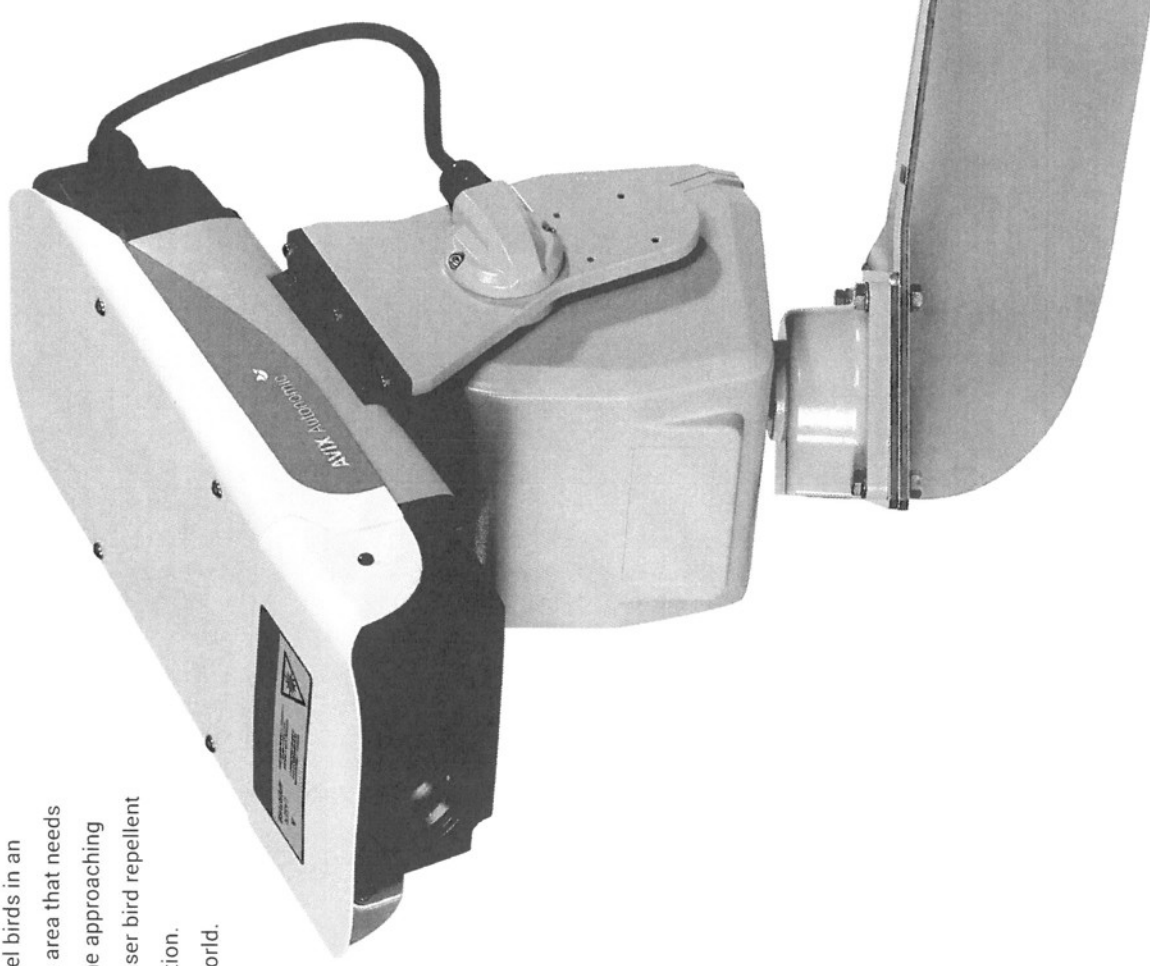
A Bluetooth connection can be made between the AVIX Connect application and the AVIX Autonomic. A user can configure the AVIX Autonomic, change settings, update the system and check the system status with the AVIX Connect application. The application is available for such mobile device operating systems as Android and iOS.

Get excellent customer service

The bird repelling capabilities of AVIX systems and general services are continuously being improved. The AVIX Autonomic is designed to be customizable, giving it the ability to adapt to the customer's needs. It is also made to be ready for future upgrades and updates via the AVIX Connect application. Service Level Agreement (SLA) allows an extended warranty and guarantees that customers get the best quality at all times.

Modular Design

Components of the AVIX Autonomic can easily be replaced, minimizing downtime.



About AVIX

Taking bird control technology to the next level: AVIX provides long-term solutions for large-scale bird problems in different contexts by using a unique combination of technology and support services

AVIX dominates the market for bird control with state-of-the-art systems and support services, bringing solutions for large-scale applications at much lower costs than existing methods, without causing nuisance to other animals or humans

AVIX solutions provide immediate positive results with a fast return on investment. After the investment we work together with our customers to reach their desirable results. After the bird problem is solved we continue to optimize the system for maximum effectiveness at lower annual costs

AVIX Connect

Because of the many variables that affect successful system implementation and safety complexities, AVIX has developed a technology to optimize interaction between AVIX experts, systems, essential customer information and tactical bird control data. It is required to use AVIX Connect with AVIX Autonomic to ensure successful bird repelling results.



Get your free quote now!
www.avix.io/bcg

AVIX Academy

AVIX provides a variation of online and on-site training sessions. The main focus is a safe and effective use of our solutions. Whether a person is involved in selling, installing or operating a laser system, everyone must follow specific courses to ensure they possess the knowledge and capabilities to guarantee high performance and safe deployment of the bird deterrent lasers.



Get your free basic laser safety training!
www.academy.avix.com

Technical specifications

Laser class	3B
Laser beam color	Green
Service life laser source	5,000 hours
Horizontal projection range	360° (continuous)
Vertical projection range	-50° to +30°
Endurance	IP66 (suitable for indoor and outdoor use)
Power source	Power adapter (100 - 277 VAC) or optional solar
Operating voltage	24 VDC (@ max. 4A)
Power consumption	100 W (peak operating power)
Safety features	Laser operating LED indicator and key-lock switch (according to EN 60825-1:2014), Emergency stop button, Password protection
Certification	CE, FCC, 2014/35/EU (LVD Directive), 2014/30/EU (EMC Directive), IEC 60825-1:2014 (Laser Safety Directive)
Weight	11 kg (24 lb)
Dimensions	50 (19.7) x 21 (8.3) x 40 (15.8) cm (in) (L x W x H)
Connectivity	Bluetooth
Mobile device requirements for the AVIX Connect app	Android: Android version 4.0.0 or higher, with Bluetooth version 4.0 or higher, iOS: iOS version 11 or higher, with Bluetooth version 4.0 or higher
AVIX Remote status & Control Module	Wireless ON/OFF switch, Mobile application, Real-time AVIX Autonomic status, Global reach (cellular network coverage is required: GSM/2G or higher)

Optional accessories

Mounting accessories	Vertical Mounting Bracket, Horizontal Mounting Frame, Adjustable Frame Extender, Power Extension Cable (5m), Pole Top Mounting Bracket, Horizontal Mounting Bracket
Solar accessory	1 x Battery Box Kit (24V)
Solar Frame Kit	+ 2 x Solar power extension cable (5m) + 2 x Solar panel frame brackets + 2 x Battery for solar charging system (12V) + 2 x Solar panel
Solar accessory	1 x Battery Box Kit (24V)
Solar Pole Kit	+ 2 x Solar power extension cable (5m) + 2 x Solar panel pole brackets + 2 x Power Extension Cable (5m) + 2 x Battery for solar charging system (12V) + 2 x Solar panel
Remote Control (RF)	Wireless ON/OFF switch, 868MHz FM-technology, 1 - 4 channels (expandable), 2 (1,24) km (mi) reach



WARNING – LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT

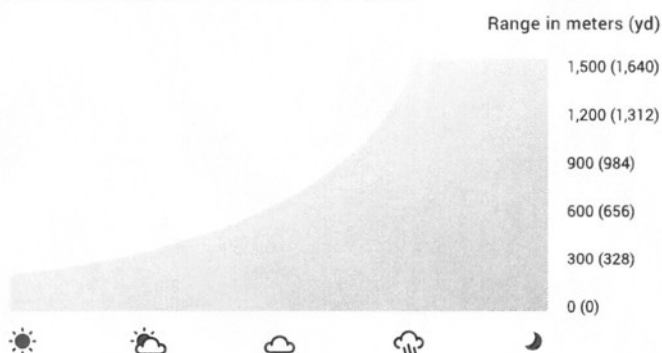
MAXIMUM OUTPUT <500 mW
WAVELENGTH 532 nm
CLASSIFIED TO IEC EN 60825-1:2014

Application accessories

With the AVIX Autonomic we provide a flexible solution. The system can be adapted to any kind of environment. It can be installed on a pole, the (extended) frame, or it can be mounted to a wall. These are only a few examples of the many ways the AVIX Autonomic can be installed.



Estimated range for effective bird dispersal



Laser brightness

The laser output power is adjustable and it can be set to match the environment. A higher laser output power is recommended for use during bright light conditions.

Distance and beam angle

The AVIX Autonomic laser is effective over a long distance; however, the actual surface area covered by the laser depends on particular situations and obstacles in the field.

The AVIX Autonomic is designed and manufactured by **Bird Control Group**

Bird Control Group - Europe
Molengraaffsingel 12
2629 JD Delft
The Netherlands

Bird Control Group - North America
27350 SW 95th Ave, Suite 3022
Wilsonville, OR 97070
United States

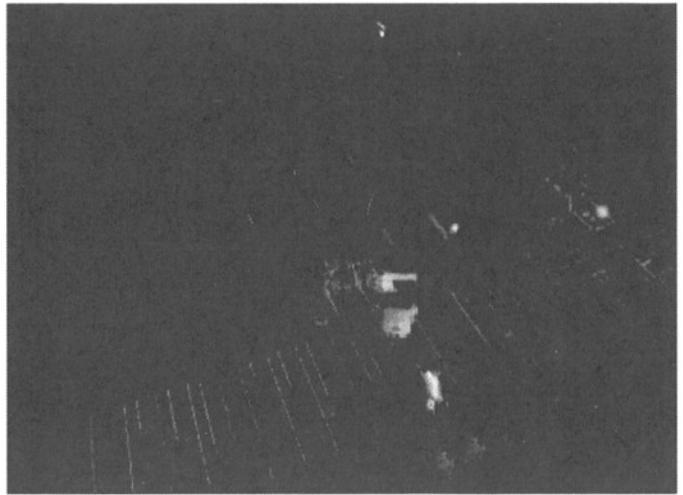
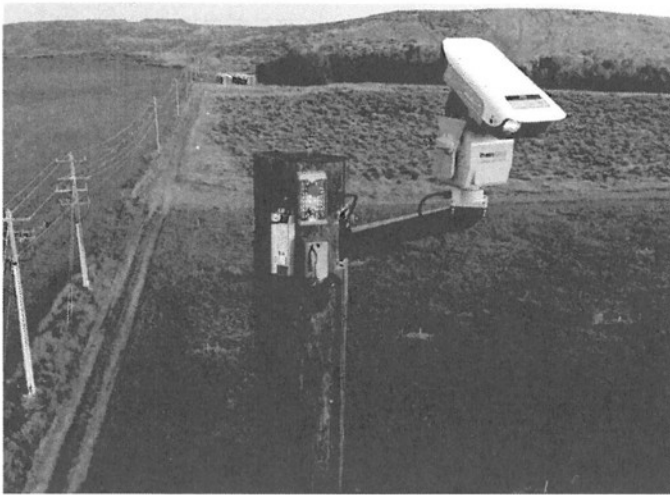
T +31 23 230 2030
E hello@birdcontrolgroup.com
W birdcontrolgroup.com
W avix.com

T +1 844 406 9280 (toll-free)
E hello@birdcontrolgroup.com
W birdcontrolgroup.com
W avix.com



Business Case Bird control laser solves bird problems at electrical substation

Location:	Benton City, Washington, United States
Application context:	Electrical substation
Problem definition:	Bird droppings causing short circuits and damaging structures
Bird species:	Doves (<i>Columbidae</i>) Starlings (<i>Sturnidae</i>)
Bird behavior:	Nesting and roosting
Time of the year with bird problems:	Spring, Summer & Fall
Time of the day with bird problems:	All day with additional pressure at dusk and dawn
Number of systems:	2 x AVIX Autonomic Mark II
In use since:	July 2020
Laser projection area:	8000 sqft
Bird reduction after the laser deployment:	100%



Electrical substation gets rid of birds with laser bird control devices

Birds take over electrical substations

The Benton Rural Electric Association (REA) located in Benton City, Washington is the ideal location for migratory birds, as a feeding, roosting, and nesting ground. This became a problem when birds chose the substation to be their home. Benton REA is an electric cooperative that operates 15 substations across three counties in southern Washington. They recognized that a number of outages were caused by birds nesting throughout the Kennedy Substation. This was a result of the accumulation of bird droppings that would connect sensitive components, cause short circuits, and damage expensive parts of the equipment.

Innovative bird control solution

"We needed a solution quickly. We had experienced a number of outages and were desperate.", says Joel Mietzner, a systems engineer with Benton REA. As a solution, Benton REA invested in TransGard's new high-tech laser bird control devices (manufactured by Bird Control Group). TransGard is an American based company that provides solutions for power outages caused by animals at electrical substations. For 20 years they have prioritised the prevention of power outages from squirrels, raccoons, snakes, birds and others.

TransGard currently protects over 3,000 substations from wildlife in the United States and Canada, offering critical benefits to utilities and their customers. The laser bird control device is an automated system that uses a green laser beam on the concentrated areas where the birds are nesting or roosting to scare them away.

As the green laser beam approaches the birds, they feel threatened and fly away from the area immediately.

Joel Mietzner explored many other bird control devices as a potential solution, however, they had no success with them. Mietzner says "We wanted to do our homework about choosing a solution, but we needed to solve the problem quickly. We contacted TransGard about laser bird defense."

Zero bird-related outages since installation

After deploying the automated laser bird control devices at Benton REA, the birds stayed away. Benton REA was able to keep birds out of the substation without disturbing their migratory patterns. The substation managed to achieve zero bird-caused outages since the deployment of the automated bird control devices.

"The birds have learned that the interior of the substation is not somewhere they want to be."

"Every substation has its own needs and challenges, but the Laser Bird Defense was the answer for us."

Joel Mietzner, Systems Engineer with Benton REA