Product Catalogue

Sep. 2018

MYDEFENCE COMMUNICATION

"We protect those who protect us"

Who are we

MyDefence is an agile engineering company, founded in 2009 by military officers with a goal of protecting soldiers against emerging IED threats.
Through time we have extended our concentration and effort to be much more than ground based IED weaponry. At present, we are developing technology to detect and defeat emerging UAS threats.
We leverage a deep understanding of security and military operations to constantly pursue our vision of "*protecting those who protect us*".

What we do

MyDefence specializes in reducing Size, Weight and Power (SWAP) on Radio Frequency (RF) products. Our work has made us specialists in spectrum sensing and signals analysis for C-UAS and C-IED products. We have developed technologies capable of detecting and countering both Radio controlled IEDs (RC-IED) and Small Unmanned Aerial Vehicles (UAV).

Our technology platforms consist of passive RF detection, active radar and active mitigation protocols. All products are rugged, lightweight and have been aimed to be competitively. The root of our technology is centered around commercially available components.

Our technologies can be used as wearable products to protect dismounted soldiers against RC-IEDs or early warning against UAVs. The products are small and can be mounted on vehicles to detect and counter UAVs or they can be installed as perimeter defenses against UAVs. Additionally, they can be adapted as payloads on small UAVs to act as flying intelligence platforms.

The products can be interfaced with command and control systems enabling commanders, operators and intelligence users with an RF threat picture in force protection scenarios.

Together with industry leaders, we are developing new features and interoperability's to our Counter Drone system. With global Prison Services in Europe and North America we are developing largescale C-UAV perimeter systems.

Our expertise in reduction of SWAP-C has made us international leaders in the field. We are rapidly expanding into other capabilities areas such as Combat Aircraft and Naval Vessels. Our expertise in reduction of SWAP-C has made us international leaders in the field. We are rapidly expanding into other capabilities areas such as Combat Aircraft and Naval Vessels.

The current situation

Commercial off the shelf drones produce an ever-increasing security threat, and as such an increased requirement for a vigilant response. Concerns around safety, security, surveillance and malicious behavior pose a significant threat to soldiers on the ground, security professionals, corporations and general public safety.

Adequate insurance to this rising and readily available threat is of particular importance to those risking their lives in theater and to those who guard or protect people in various scenarios.

MyDefence has developed a series of C-UAS products catering to the needs of those who protect us. The products are developed together with security personnel and special forces from around the world. Technological innovation meets with manufacturing maturity in our Technology Readiness Level 9 products.

Below is an image of a high explosive round attach to a terrorist drone, capable of flying up to 10km from the operator and with a flight time of 20min.

MyDefence competencies

As specialists in drone detection and mitigation, our field of expertise extends beyond the technology we create and design. From the lab to the field, our protocols and training represent the highest tier of threat awareness. Our backgrounds in security, military operations and commercialization of products means we have a wide range of competencies, rooted in our products.

Success stories and legacy

Our history began with research in counter IED technology, in order *to protect those who protect us*. The instantaneous manipulation of wireless signals allowed us to move in to the detection of drones, which exist in a similar RF spectrum. Our proprietary approach to detection and manipulation of Frequency Hopping Spread Spectrum (FHSS) is unmatched in the marketplace. Our research, knowledge and expertise has positioned MyDefence as senior advisors in the field of counter UAS to agencies and governments across the world.

The EU Commission recently announced a grant to MyDefence to develop a full-scale system in protection of Urban Soft Targets and Critical Infrastructure against terror attacks with small UAV. In 2018 MyDefence will equip 2 stadiums and 2 prisons in Europe with large scale drone detection sensors.

For more success stories, please contact us at:

E-mail: sales@mydefence.dk/Phone: +45 70 251 252

Business insights

Our company vision "*to protect those who protect us*", is Personified in our 3 shareholders, our CEO – Christian Steinø, CTO – Dan Hermansen and CEO of MyDefence System Integration– Karsten Madsen.In addition, Luke Layman serves as head of MyDefence North America.

Our combined mission is "to deliver products within Electronic Warfare, by extensive research and development in the field of mission critical RF equipment".

As per August 2017 we counted 22 employees, 80% in engineering, 15% Business Development, Marketing and Sales and 5% administration.

"Our success rely on the people we bring onboard. We want team players, entrepreneurs, skilled people, mission oriented people and people who want to protect those who protect us. Bring those qualities into one person – and you have a MyDefence employee." **-**

CEO, Christian Steinø

WINGMAN 100

Personal drone alarm for police and security officers

MYDEFENCE

WINGMAN

A wearable personal drone alarm, capable of detecting remote controlled commercially available drones (UAV, AUS, RPAS etc.) at long ranges - and often before take off.

With SWaP (Size, Weight and Power) analysis and a user oriented development focus, we ensure capablilites that match the requirements and operational needs of police and security officers.

WINGMAN is a an intuitive wearable alarm system, that has and continues to be developed with law enforcement officers globally. This approach ensures the right mix of capabilities and technical features.

Technical features	WM 100
Battery capacity	<8 hours
Power source	Rechargeable Li-lon battery
Charger adapter	115/230VAC to 12VDC
Frequency antenna	2.4-5.8GHz (60° angle)
Software defined radio	70MHz to 6GHz
Detection time	<5sec known target
Operating temperature	-30° - 35° C
IP rating	IP67
Dimensions	H:160xW:82xD:44mm
Weight	475g
Color	Black/Desert
TRL	9
Detection range	1 km line of sight

Capability

WINGMAN is carried on the torso or on the outside of your clothes to optimize performance (e.g. vest or backpack straps). The Wingman 100 features an internal lithium battery for fully autonomous operations.

It operates both as a standalone unit or connected as a peripheral device to other equipment, such as a personal communication radio. Through an external radio you will be able to integrate your drone detection system to any existing communication and positioning system.

The WINGMAN features an internal 60° directional 2.4/5.8 GHz antenna. As such, the WINGMAN is designed to function fully autonomously giving users the ability to provide direction finding capability of drone threats. An external antenna may be added to provide omni-directional capability as well as increase frequency ranges.

WINGMAN continuously scans and searches for UAV control and video signals and acts as an early warning detector of commercial drones. The continuous scanning function makes it capable of detecting the drone control frequency or video downlink signal, often before it takes off.

The impressive performance packed in a small and lightweight case makes it the smallest and most powerful wearable drone detector on the counter UAS market.

Features developed with the user

WINGMAN is waterproof. Cover-caps protect the unused connectors, making it possible to wade through water and operate in pouring rain.

Alarms are indicated either with sound, vibration or bright LED's. Continuous updates are provided to the drone database with new search filters in order to provide users with the latest technology at all times. Extended range detection for special missions is available upon request. MyDefence has developed high performance omni-directional antennas to cater to the needs of the most demanding users.

Contact MyDefence

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WINGMAN 101

Personal drone alarm for dismounted soldiers and special operation forces

MYDEFENCE

WINGMAN

A wearable personal drone alarm, capable of detecting remote controlled commercially available drones (UAV, AUS, RPAS etc.) at long ranges – and often before take off.

With SWaP (Size, Weight and Power) analysis and a user oriented development focus, we ensure capabilities that match the requirements and operational needs of police and security officers. The Wingman 101 has no internal battery and is compliant with US and EU emission and safety requirements.

WINGMAN is an intuitive wearable alarm system, that has and continues to be developed with special operations personnel and law enforcement officers globally. This approach ensures the right mix of capabilities and technical features.

Technical features	WM 101
Battery connection	Nettwarrior adapter cables
Power source	Ext. 12V battery
Frequency antenna	2.4-5.8GHz (60° angle)
Software defined radio	70MHz to 6GHz
Detection time	<5sec known target
Operating temperature	-30° - 57° C
IP rating	IP67
Dimensions	H:153xW:82xD39mm
Weight	460g
Color	Black/Desert
TRL	9
Detection range	1 km line of sight

Capability

WINGMAN is carried on the torso or on the outside of your clothes to optimize performance (e.g. vest or backpack straps). The WINGMAN 101 features an internal lithium battery for fully autonomous operations.

It operates both as a standalone unit or connected as a peripheral device to other equipment, such as a personal communication radio. Through an external radio, you will be able to integrate your drone detection system to any existing communication and positioning system.

The WINGMAN features an internal 60° directional 2.4/5.8 GHz antenna. As such, the WINGMAN is designed to function fully autonomously giving users the ability to provide direction finding capability of drone threats. An external antenna may be added to provide omni-directional capability as well as increase frequency ranges.

WINGMAN continuously scans and searches for UAV control and video signals and acts as an early warning detector of commercial drones. The continuous scanning function makes it capable of detecting the drone control frequency or video downlink signal, often before it takes off.

The impressive performance packed in a small and lightweight case makes it the smallest and most powerful wearable drone detector on the counter UAS market.

Features developed with the user

WINGMAN is waterproof. Cover-caps protect the unused connectors, making it possible to wade through water and operate in pouring rain.

Alarms are indicated either with sound, vibration or bright LED's. Continuous updates are provided to the drone database with new search filters in order to provide users with the latest technology at all times.

Extended range detection for special missions is available upon request. MyDefence has developed high performance omni directional antennas to cater to the needs of the most demanding users.

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WINGMAN 103

Personal drone alarm for
special operations forces

WINGMAN 103

A wearable personal drone alarm, capable of detecting remote controlled commercially available drones (UAV, UAS, RPAS, etc.) at long ranges - and often before the drone takes off.

The WINGMAN 103 is the flagship of the WINGMAN-series of wearable, intuitive drone detection systems. It is a ruggedized version designed for the requirements of special operations forces with the capability to withstand extreme temperatures from -30°C to +65°C with a minimum of 14 hours operational battery life using standard external clip-on batteries (AN/PRC 148-152), making it the most versatile and durable WINGMAN yet.

Our constant focus on reducing SWaP (Size, Weight and Power consumption), the WINGMAN 103 is developed to be the toughest, smallest, lightest, and most power-efficient wearable drone detection and alarm system available on the market at a cost-effective price.

Technical features	WM 103
Weight	735 gram
Dimensions (D x W x H)	42 x 96 x 166 mm (1.65 x 3.78 x 6.54 inch)
IP rating	IP67
Operating temperatures	-30°C to +65°C
Battery capacity	<14 hours
External battery	AN/PRC-148 and AN/PRC-152
Internal antenna	2.4 & 5.8GHz ISM Band
Detection time	<5 sec for known targets
Detection range	1 km line of sight
Color	Black/Desert/Custom
Included accessories	• Jack-compatible headset • Molle System • Custom Peli case
Optional accessories	• External Active Antenna AA100 • Sparrow 100/101 • Firmware Upgrade Tool • Custom power cable

Capability

The WINGMAN 103 is a true wearable sensor for drone detection that can be carried on the torso or on the outside of your clothes to optimize performance (e.g. vest or backpack straps) using the MOLLE straps. Its low weight and small form factor allows each soldier to carry a personal WINGMAN, if demands require it.

The WINGMAN 103 works directly out of the box and is very easy to operate. It is designed to function autonomously, and the internal antennas cover the 2.4GHz and 5.8GHz ISM band and is directional. An external active antenna (AA100) can be added to provide 360o coverage, which can increase the frequency range and cover four different frequency bands (433Mhz, 1.2Ghz, 2.4GHz and 5.8GHz) allowing for greater threat detection of enemy drones.
The WINGMAN 103 continuously scans and searches for UAS control and video signals and acts as an early-warning detector of commercial drones. The continuous scanning function makes it capable of detecting the drone control signal and/or video downlink signal - often before the drone takes off from the ground.

The impressive performance packed in a small and lightweight form factor makes it the only truly wearable drone detection device on the counter UAS market, designed to meet the requirements of special operations forces.

Features developed with the end user

The WINGMAN 103 is an all-weather device that can withstand extreme weather conditions. The device is IP67 rated and waterproof with its cover-caps that protect the unused connectors. When a drone is detected, alarms are indicated to the operator with sound, vibration and/or visually with a bright LED. Continuous updates are provided to the drone database with new search filters in order to provide users with the latest technology at all times.

Extended range detection for special missions is available upon request. MyDefence has developed high performance omni-directional antennas to cater to the needs of the most demanding users.

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PITBULL

Personal Counter UAS Jammer for dismounted soldiers

PITBULL

A wearable Counter UAS jammer, capable of defeating remote controlled commercially available drones (UAV, UAS, RPAS, etc.) by jamming the control signal at long ranges – with minimal impact on own communication.

The PITBULL is a wearable smart jammer engineered to protect dismounted soldiers against commercially available drones used by enemy forces for reconnaissance or as weapon delivery systems. With its ruggedized exterior, and weighing only 775 gram, the PITBULL smart jammer is a versatile platform that allows dismounted soldiers to focus on the mission. The PITBULL works together with the WINGMAN series of drone detectors, making a complete detect-and-defeat solution to mitigate the threat of malicious drones.

MyDefence is determined to reduce SWaP (Size, Weight and Power consumption), and the PITBULL is developed to be the toughest, lightest, and most power-efficient wearable Counter UAS jammer available on the market at a cost-effective price.

Technical features	PB100
Weight	775 gram
Dimensions (D x W x H)	60x90x165mm (2.36x3.54x6.50inch)
Battery (standby)	>20 hours
Battery (continuous jamming)	2 hours
External battery	AN/PRC-148 and AN/PRC-152
Operating modes	Automatic and Manual
Operating temperature	-30 – 65°
Transmit power (average)	2W
Frequency bands	2.4GHz and 5.8GHz
Internal antenna	6 dBi antenna gain EIRP of 8W (39dBm) Circular polarized Half power beamwidth 60° hor. & ver.
Jamming range	1000 meters
Color	Black/Desert/Custom
Included accessories	• Molle System • Custom Peli case
Optional accessories	• Firmware upgrade tool

Capability

The PITBULL is a true wearable Counter UAS jammer that can be carried on the torso or on the outside of your clothes to optimize performance (e.g. tactical vest) using the MOLLE straps. Its low weight and small form factor allows each soldier to carry a personal PITBULL as an active countermeasure against the threat of malicious drones.

The PITBULL works directly out of the box and is very easy to operate. It is designed to function either autonomously or manually, and the internal directional antennas cover the 2.4GHz, 5.8GHz and GNSS frequency bands. With its directional antennas, the PITBULL is capable of jamming a malicious drone at the distance of 1000 meters. An external active antenna will be made available to cover additional frequency bands.

The PITBULL can work as a stand-alone device. In manual mode, the PITBULL will constantly jam the desired frequency to deny any malicious drones access to the airspace. In autonomous mode, the PITBULL can work together with the WINGMAN series of drone detectors, and automatically jam the control signal when a malicious drone is detected.
The impressive performance packed in a small and lightweight form factor makes it the only truly wearable Counter UAS jammer on the market that is designed to meet the tactical requirements of dismounted soldiers.

Features developed with the end user

PITBULL is designed to reduce the cognitive load of its operator, allowing soldiers to focus on the mission. The Counter UAS jammer is light, wearable and requires little to no training. The software-based jammer will continuously be updated in an effort to constantly refine and better the performance of the jammer.

MyDefence is working on an external active antenna for the PITBULL Counter UAS jammer that will provide the end user with the ability to cover additional frequency bands, and thereby extending the capability of the jammer.

Contact MyDefence

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EAGLE

Radar for detection and tracking

EAGLE

A one-man deployable radar specially developed for detecting small moving targets.

EAGLE classifies the specific radar signature from drones, and provides real-time information on speed, range and direction.

Radar detection is by far the best fit for RF detection of drones in a fully autonomous flight mode. Our proprietary radar yields impeccable detection results and is easily displayed on fully customizable user interfaces.

Technical features	EAGLE
Frequency	X-band (10.015-10.085 GHz)
Frequency modulation	FMCW
Power supply	115-230V AC
Detection range	<1.000m
Classification range	<500m
Detecion time	<4sec
Update rate	60rpm
Dimensions	H:640xW:540xD:190mm
Weight	23kg
IP rating	IP54
Color	Grey/upon request
Operational temperature	-30° - 57° C
TRL	8
Detection range	1 km line of sight

Capability

The EAGLE radar continuously scans 360° and detects, tracks and classifies drones up to 1500 meters.

Detection of autonomous drones (drones operated via way-points (GPS)) requires a radar. The EAGLE radar adds a more precise level of detection to the KNOX system, enabling it to detect drones operating without a radio link between the operator and the drone itself.

EAGLE is suited for portable scenarios where fast deployment is required. Eagle is designed with low weight, and easy setup. It is optimized for mission sets such as VIP protection or dismounted operations. Its compact design makes it easy to install on any surface, without additional modifications. This makes it perfect for prisons, embassies, critical infrastructure and large compounds.

EAGLE provides reliable and accurate flight-track information, making your countermeasure and risk mitigation more effective.

Features developed with the user

Reduction of Size, Weight and Power consumption of the radar has been a design requirement. Due to its low weight, it is also possible to carry the radar to a desired position, such as a roof- or hilltop.

EAGLE requires little power (can be powered by a car battery as low as 12V) and is designed to be used with a simple user-friendly interface requiring no training for the operator.

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WATCHDOG

Area drone detection as a mounted RF scanner.

WATCHDOG

A single or linked networked RF Sensor.

WATCHDOG is a networked RF sensor capable of providing drone make/model information to the user by searching for control signals and video feeds to and from the drone.

WATCHDOG is specifically suited for stationary installations such as perimeter protection at prisons, military camps or can even be mounted on vehicles. Multiple WATCHDOGS can be installed on a scalable network, enabling triangulation of drones and larger area detection.

WATCHDOG is very simple to install. It can be installed on a tree or a pole using fast attachment points. WATCHDOG uses a Power over Ethernet to connect to a network server, and can be setup in minutes.

Technical features	WATCHDOG
Frequency antenna	2.4-5.8GHz (60° angle)
Software defined radio	70MHz to 6GHz
Power supply	PoE
Detecion time	<5sec
Dimensions	H:174xW:100xD:43mm
Weight	515g
IP rating	IP67
Color	White/Grey/upon request
Operational temperature	-30° - 57° C
TRL	9
Detection range	1 km line of sight

Capability

A single WATCHDOG unit is able to detect drones at a 60° angle at long ranges and often before the drone takes off.

With a single cable installation, WATCHDOG can be used for rapid protection of remote camp sites, military bases, refugee camps and borders. The network cable installation enables WATCHDOG to be setup in a perimeter configuration along, e.g. a fence or wall, to obtain coverage against hostile reconnaissance drones.

In a network configuration, together with IRIS (user interface) you will be able to receive detailed information on drones detected and you can insert your own distinguishable point of interest, such as “northern tower, “hill top”, or “gate” on IRIS. By doing so, users will be able to act quickly and more precisely to the threat itself.

Features developed with the user

The built-in antenna and single cable PoE system allows for a quick installation. Due to the small form factor the WATCHDOG unit blends in seamlessly with vehicles or existing infrastructure.

WATCHDOGs plug-and-play interface makes it easy to connect with existing security infrastructure or on a protocol level.

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WOLFPACK

Dome surveillance as a 360° scanner

WOLFPACK

WOLFPACK is a portable 360 degree RF drone detector.

WOLFPACK is a 360° RF sensor capable of providing make/model information to the user by searching for control signals and video feeds from drones.

WOLFPACK is suited for stationary installations such as perimeter protection at prisons, military camps, mounted on vehicles or sea vessels. As a standalone unit it detects and enables triangulation of drones in larger areas.

Technical features	WOLFPACK
Frequency antenna	2.4GHz & 5.8GHz
Hemispherical coverage	360°
Platform	Software defined radio
Power supply	12-15V DC or 115/230V AC
Detecion time	<5sec known target
Dimensions	H: 26cm, D: 31.5cm
Weight	5kg
IP rating	IP67
Weather conditions	All
Color	White/Grey/upon request
Operational temperature	-30° to +60°C
Interface	Ethernet
TRL	9
Detection range	1 km line of sight

Capability

The WOLFPACK drone detection system is lightweight and portable. It's rugged and lightweight design makes installations on vehicles, buildings or tripods easy and straight forward.

The WOLFPACK is simple to configure and setup. WOLFPACK was designed with operational focus. It is literally a plug and play design and you will be operational within minutes. The 360° coverage and intelligent signal analysis helps to detect the threat direction, type and model of drone. All of the information is displayed on our user-friendly interface IRIS.

IRIS is our consolidating graphical user interface which displays the necessary information to the user.

Features developed with the user

WOLFPACK is designed with simplicity in mind. It's Size, Weight and Power provide a competitive edge.

The system is upgraded through IRIS. New features, GUI updates and processing updates are performed on a regular basis and are driven by customer feedback.

WOLFPACK is easy to interface with existing security infrastructure, either through our plug-and-play user interface or on a protocol level – and requires only 2 cables.

Contact MyDefence

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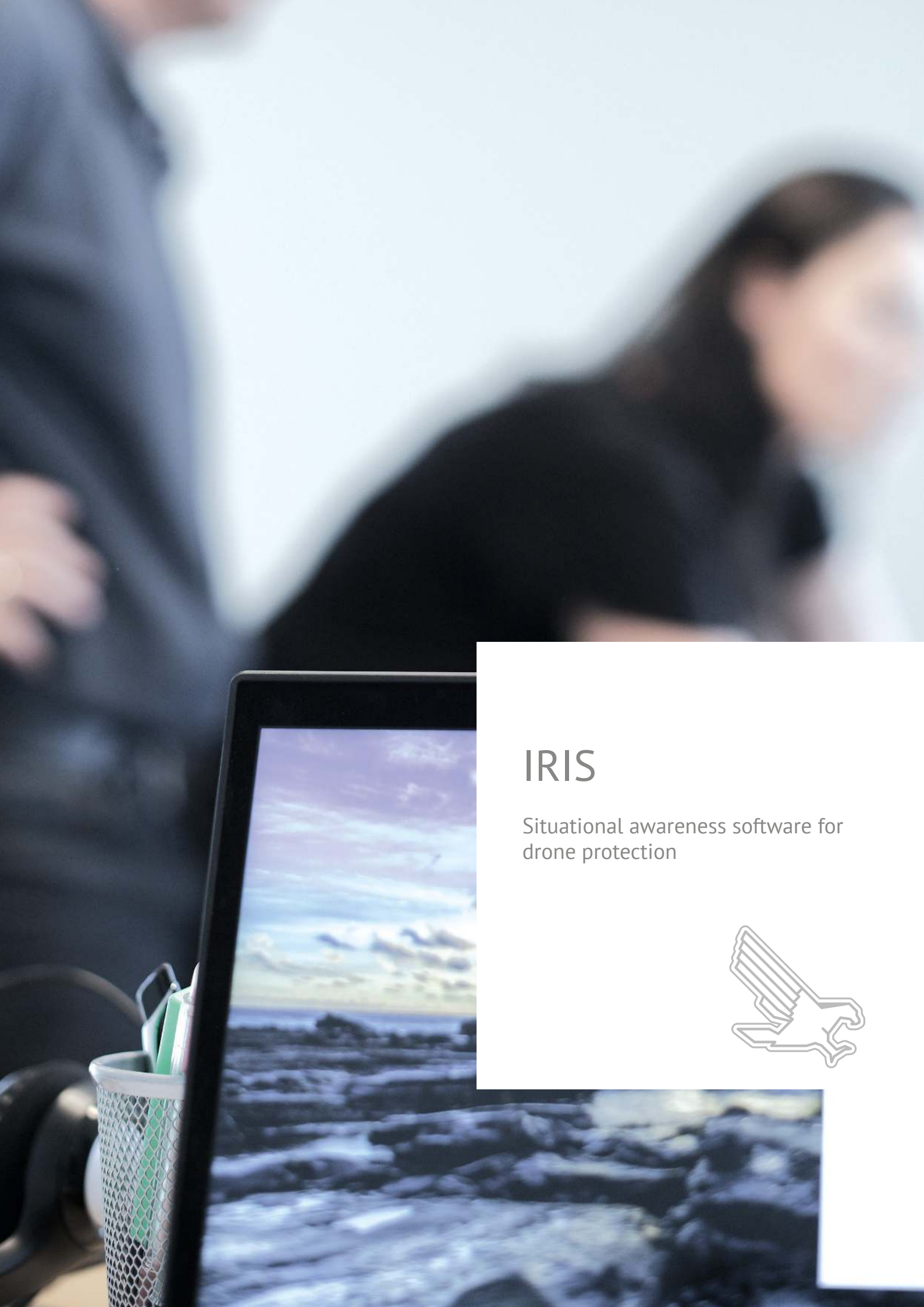

IRIS

Situational awareness software for drone protection

IRIS

IRIS intergrates and supports all of Mydefence sensor sources and is able to integrate third party sensors through our SDK.

IRIS is a command and control alarm system which visually present the information, detected by our sensors.

By setting the GPS location of the individual devices and the control station, you will be able to create a complete map, with visual overlay information of the zones you are to protect and detect.

Technical features	IRIS
Operating system	Linux
Maps	ESRI arcGIS server
Software interface	JSON/REST
Server requirements	Min 4GB ram, 2,2Ghz Core 2
Client requirements	Min 4GB ram, 2,2Ghz Core 2
Maps	Downloaded prior/during setup
Multi-sensor integration	Yes
Online logging view	Yes
Offline post processing	Yes
Multiple logins	Yes
Third party integration	Yes
Offline/Online mode	Yes

Capability

IRIS is a fully customizable User Interface. For users with large existing infrastructures, you will be able to use our SDK/API development tool to integrate our sensors to your current platform through the "IRIS Backend Server solution". The comprehensive documentation usually allows for a minimal 5 days integration, from installation through field test.

For users with no existing infrastructure or users who require rapid setups, MyDefence provides "IRIS Frontend solution". Any alarm recorded by the RF sensor is instantly shown on the server screen in the mission control room or field tablet, indicating which zone has been activated, and the make and model of known drones.

New maps are downloaded during mission planning and final setup is adjusted during deployment. Alarm information is shown with icons and detailed information in text boxes.

Features developed with the user

IRIS is designed with simplicity in mind. Our users require a minimalistic design and the option to remove any unnecessary information from to the display setup.

All sensors can be updated through IRIS, allowing for easy maintenance and a complete oversight of your current installation.

Through our partners, IRIS is capable of sending messages (e-mail, text or to HF-radio) allowing for faster responses – contact us to learn more

Contact MyDefence

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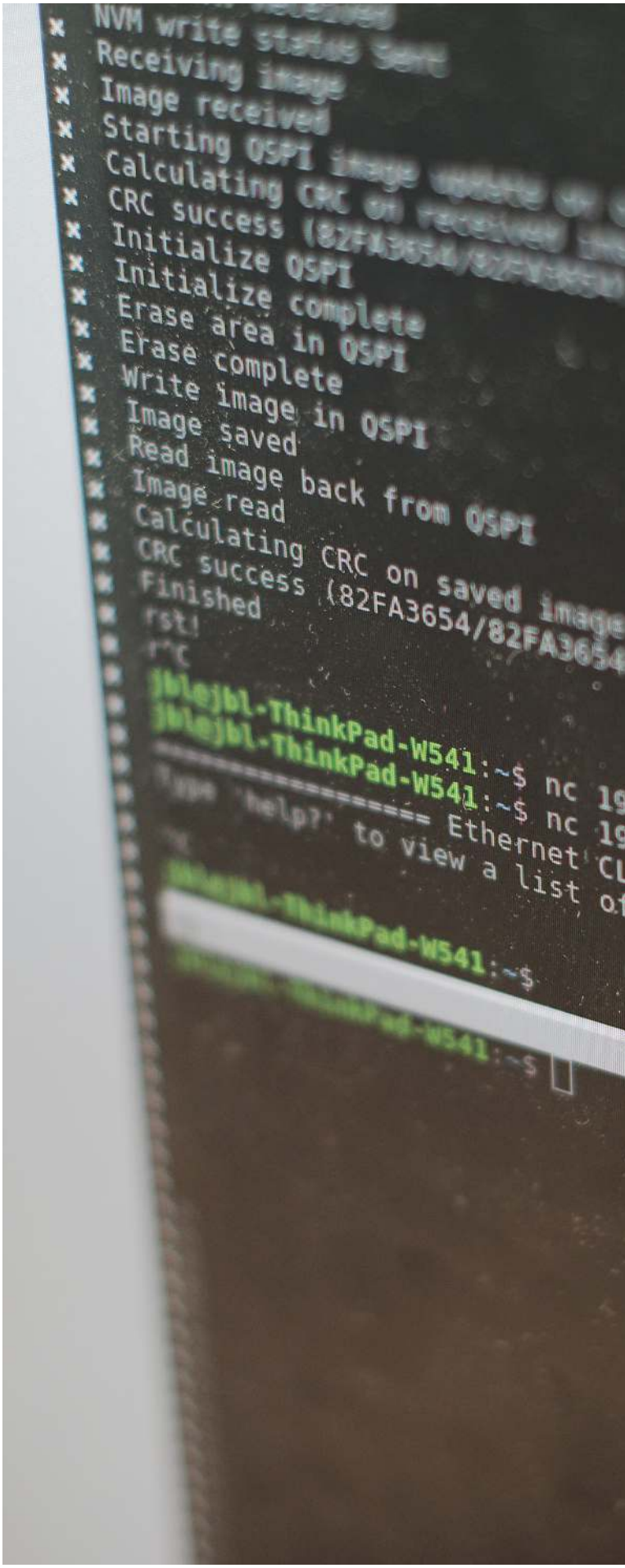

ACCESSORIES

Accessories and miscellaneous from MyDefence

ACTIVE ANTENNA

Quad-band external omni-directional antenna that is plug-and-play for the WINGMAN series.

The Active Antenna (AA100) is an active omni-directional antenna for the MyDefence WINGMAN series. The Active Antenna is reliable, durable, low-weight and is dust- and waterproof with an IP67 rating.

The automatic quad-band antenna selection provides ease of use and optimal detection capability, allowing the RF sensor to expand its drone detection to cover the 433MHz, 1.2GHz, 2.4GHz and 5.8Ghz frequency bands. The antenna is plug-and-play and does not require an external power source, as the antenna is powered by the WINGMAN unit.

The Active Antenna has built-in filters and low noise amplifiers and is specifically designed for drone detection for special operations forces or for end-users who require the optimal drone detection solution. The Active Antenna 100 is the ideal companion for the WINGMAN series of personal drone detectors and comes with a Molle clip-on cradle for easy mounting.

Technical features	AA100
Weight	200 gram
IP rating	IP67
Dimension (D x W x H)	235 x 40 x 30 mm (9.2 x 1.6 x 1.2 inch)
Cable length	90 cm (3 ft.)
Frequency ranges*	• 410-470 MHz • 900-1300 MHz • 2400-2483.5 MHz • 5150-5990 MHz
Included accessories	• Cradle w/Molle clip-on

* Actual frequency ranges depend on the RF sensor configuration and operational mode

We provide custom
anti-drone solutions tailored
to your specific needs.

WUT100

WINGMAN UPDATE TOOL

A small portable tool which allows you to upgrade the WINGMAN firmware and drone database. The updates are provided through our secure sever solution and loaded on to the WINGMAN separately from a computer, for extra security.

SPARROW100

SELF TEST TOOL FOR RF SENSORS

The self-test tool is designed to replicate frequency hopping patterns of a notional drone. It operates in all spectrums currently supported and provides users immediate feedback of unit function.

DUO and TRIO MOUNTS

WATCHDOG SENSOR MOUNTS

Set your WATCHDOG sensors in a perfectly aligned field of view. The mounts allow for easy installation on flat surfaces while keeping them steady and fixed. The mounts ensure that cables can be fixed with straps for safe installation and easy maintenance.

Contact MyDefence

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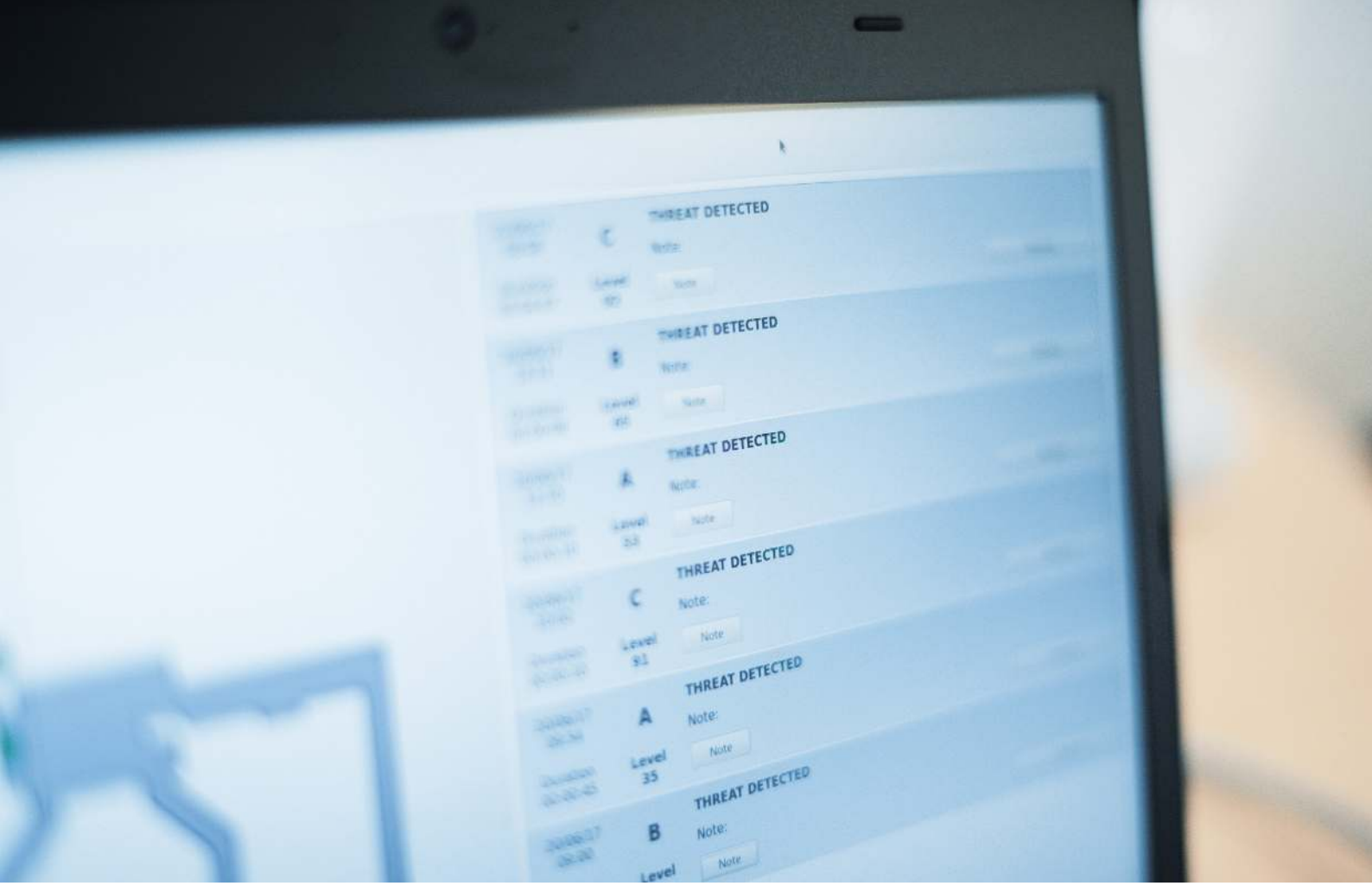
CONTACT INFORMATION



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