



VARDIRON AS

Part of SentironHolding B.V.

PRODUCT CATALOGUE

2026

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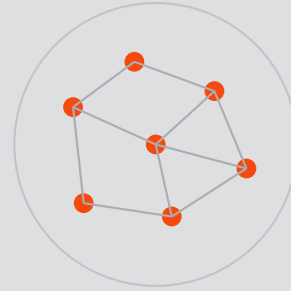


CONTENTS

ABOUT US	4
CONTROL SYSTEMS	
UNMANNED AIRCRAFT SYSTEM.....	5
10-INCH FPV DRONES – variants	
UAV VARDIRON 10-B.....	
UAV VARDIRON 10-T.....	
UAV VARDIRON 10-B PRO.....	
UAV VARDIRON 10-T PRO.....	
UAV VARDIRON 10-AI	
15-INCH FPV DRONES – variants	
UAV VARDIRON 15.....	
RELAY CARRIER	
UAV VARDIRON 15-R.....	
RELAY	
VARDIRON Relay.....	13

ABOUT US

Vardiron AS specializes in advanced unmanned technologies, with a focus on the in-house development and production of reliable unmanned systems. Driven by innovation, rigorous engineering and quality control, the company's solutions are backed by practical experience in demanding real-world operating conditions.



ENGINEERED FOR COMPLEX MISSIONS



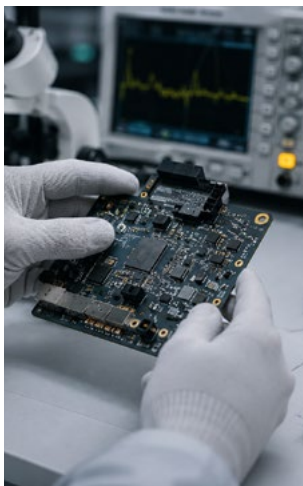
R&D

Our R&D centre actively develops and introduces new products while continuously improving existing solutions. This enables an uninterrupted development cycle and significantly shortens the path from engineering concept to mass production.



MANUFACTURING

Our distributed manufacturing model ensures a high degree of flexibility, scalability, and resilience, maintaining operational continuity even under challenging external conditions.



QUALITY ASSURANCE (QA)

Our multi-stage quality assurance process covers every stage of production – from incoming component inspection through to final flight testing. Each platform undergoes a complete inspection before being delivered to the customer.



INCOMING INSPECTION

Component quality inspection



ASSEMBLY INSPECTION

Verification against assembly standards



FUNCTIONAL TESTING

Complete inspection of all systems



FLIGHT TESTING

Confirmation of operational readiness



RELIABILITY

Combat-proven solutions you can depend on.



INNOVATION

A continuous search for new technologies and engineering solutions.



PARTNERSHIP

Close cooperation with military units to deliver real results on the front line.



QUALITY

Control at every stage, from development through to delivery to the end user.



GLOBAL VISION

International engineering. Scalable manufacturing. Mission-ready systems.

UNMANNED AIRCRAFT SYSTEM

VARDIRON 10
VARDIRON 15

**RELIABLE LINK.
FULL CONTROL.**

An integrated control system designed to maintain stable communication at maximum range and enable effective execution of a wide range of tasks.

Optimized interaction between all components ensures extended range, resistance to interference, and complete platform control in any operating environment.



RADIO MODULE

A compact signal-extension and distribution module designed for mast installation.

- IP65 protection against dust and moisture
- Powered by the ground station
- Universal mounting system
- Simultaneous support for multiple frequency bands



15-INCH RELAY DRONE

A relay based on a 15-inch drone, designed to maintain a stable link over long distances and in challenging operating environments.

 **Platform**
15-inch

 **Range**
40+ km

 **Payload**
Communications equipment

 **Endurance**
Up to 60 min

 **Channel**
Stable relay link

TECHNICAL SPECIFICATIONS

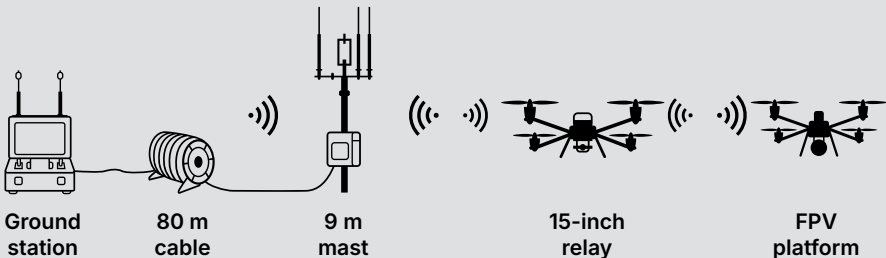
	Operating frequencies	0.7-8.8 GHz (to be confirmed when ordering)
	Link range	Over 40 km (with relay)
	Mast height	Up to 9 m
	Cable length	80 m
	Station power supply	6S, 24B, 15 Ah
	Autonomous operating time	Up to 6 h
	Operating temperature	-20°C...+50 °C
	Equipment protection	IP65

GROUND STATION

A compact control console integrating all essential components: switches, monitor, battery, communications module, and an output for FPV goggles.

- Built-in 10-inch monitor
- Output for FPV goggles
- 6S 15 Ah battery
- ELRS control system
- Intuitive controls and status indication

EXAMPLE DEPLOYMENT LAYOUT



**EXTENDED RANGE AND
A STABLE LINK**

An optimized frequency set and a high-performance antenna system maintain a stable connection even at maximum range.



**INTERFERENCE
RESILIENCE**

Using multiple frequency bands reduces the impact of interference and improves control reliability.



**MOBILITY AND RAPID
DEPLOYMENT**

Compact system components are easy to transport and can be deployed quickly in the field.



**AUTONOMOUS
OPERATION**

Built-in batteries provide extended operating time for every component in the system.



VERSATILITY

A single control system supports our entire UAV range, enabling rapid adaptation to a broad spectrum of missions.

Vardiron 10-B

The Vardiron 10-B is an optimally balanced payload capacity, and cost. Designed as a versatile professional platform for most missions, it delivers uncompromising reliability, exceptional manoeuvrability, and uncompromised performance. Multiple modifications and a modular configurations make it possible to select the optimal video and radio communication systems for each application.

VARIANTS
VARDIRON 10-B
VARDIRON 10-B 3.3



 Up to 4 kg PAYLOAD	 LR1121 x 2 DUAL-CHANNEL LINK	 40 km CONTROL AND VIDEO RANGE	 Up to 30 km WITH 1 KG WARHEAD  Up to 20 km WITH 2.5 KG WARHEAD	 Up to 25 min FLIGHT TIME	 125 km/h MAXIMUM SPEED	 Up to 1,000 m OPERATING ALTITUDE
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KEY ADVANTAGES

 HIGH-GRADE, EXTRA-THICK CARBON FIBRE Maximum frame rigidity keeps gyro data clean, reduces vibration and enables exceptional control precision, instantaneous response and confident handling even during the most dynamic manoeuvres.	 ADJUSTABLE ANTENNA MOUNTS Our proprietary mounting system enables rapid antenna-polarization changes and allows the platform to be adapted to different operating conditions without compromising reliability or ease of maintenance.
 POWERTRAIN ENGINEERED WITH ADDITIONAL RELIABILITY MARGIN Premium power MOSFETs ensure stable ESC operation and confident motor control while significantly reducing the risk of desynchronization during rapid throttle changes and under high load.	 INDIVIDUAL PID TUNING Precision tuning of every aircraft delivers immediate response, excellent handling and predictable platform behaviour across the full range of speeds and payloads.
 REINFORCED POWER FILTERING Premium low-ESR capacitors effectively suppress ripple and interference, improving power stability, electronics reliability and video-signal quality.	 FLIGHT TESTING OF EVERY UNIT Every aircraft undergoes mandatory flight testing and a complete systems check to confirm full operational readiness.

TECHNICAL SPECIFICATIONS

	Control system	Dual-channel ELRS with MiLELRS support
	Control frequencies	Gemini 600-1000 MHz, 1800-2800 MHz
	Camera	Analog 1500 TVL day/night low-light camera*
	Battery	6S3P 15,000 mAh
	Powertrain	ESC: 6S 60-80 A; 900 KV motors
	Initiation controller	FCAT (remote/contact initiation, self-destruct)

VARIANT-SPECIFIC VIDEO FREQUENCIES

VARDIRON 10-B	VARDIRON 10-B 3.3
Video frequencies*: 4.9-6.2 GHz	Video frequencies*: 2.9-3.5 GHz

* Frequencies, equipment and settings may be changed to meet customer requirements and the regulations of the intended region of operation.

Vardiron 10-T

The Vardiron 10-T is the thermal-imaging

night operations and low-visibility conditions. Developed as a versatile platform for more demanding missions, it retains the base model's high reliability, excellent handling and image quality. Multiple variants and a modular architecture make it possible to select the optimal video and radio-communication systems for each application.

VARIANTS

VARDIRON 10-T

VARDIRON 10-T 3.3



Up to **4 kg**

PAYLOAD



LR1121 × 2

DUAL-CHANNEL
LINK



40 km

CONTROL AND
VIDEO RANGE



Up to **30 km**
WITH 1 KG
WARHEAD



Up to **20 km**
WITH 2.5 KG
WARHEAD



Up to
25 min

FLIGHT TIME



125 km/h

MAXIMUM SPEED



Up to
1,000 m

OPERATING
ALTITUDE



THERMAL-IMAGING CAMERA

The integrated thermal-imaging module detects targets in any lighting conditions, including complete darkness, smoke, fog and dust. High sensitivity and fine image detail support effective day-and-night operation.



NIGHT VISION

Effective operation in
complete darkness



SMOKE AND FOG PENETRATION

Reliable detection in
challenging conditions



LONG-RANGE DETECTION

Target detection at
extended ranges



HIGH SENSITIVITY

A clear image in any
operating environment

Vardiron 10-B PRO

The Vardiron 10-B PRO features a high-

architecture, delivering higher energy efficiency, substantial power reserve and improved flight dynamics. This enables higher cruising and maximum speeds, extends mission range and maintains precise control and platform stability through the final phase of the mission.

VARIANTS

VARDIRON 10-B PRO
VARDIRON 10-B PRO 3.3





Up to **4 kg**

PAYLOAD



LR1121 × 2

DUAL-CHANNEL LINK



80 km

CONTROL AND VIDEO RANGE



Up to **45 km**
WITH 1 KG WARHEAD



Up to **30 km**
WITH 2.5 KG WARHEAD



Up to **35 min**

FLIGHT TIME



150 km/h

MAXIMUM SPEED



Up to **1,000 m**

OPERATING ALTITUDE

KEY ADVANTAGES



FLIGHT PERFORMANCE
Higher efficiency and an optimized powertrain make better use of available energy during extended missions while maintaining stable operation under high load.



LONG RANGE
Optimized for 35-45 km missions. High energy efficiency, minimal voltage sag and stable powertrain operation preserve flight dynamics, control precision and full platform authority throughout the mission, from take-off to the final metre.



SUBSTANTIAL POWER RESERVE
Confident acceleration and improved flight dynamics, even at maximum payload.



CONFIGURATION FLEXIBILITY
The platform supports a wide range of video transmitters (VTX) and receivers (RX), allowing rapid configuration adjustments to suit various operating conditions, terrain characteristics, and mission requirements.

TECHNICAL SPECIFICATIONS		
	Control system	Dual-channel ELRS with MiLELRS support
	Control frequencies	Gemini 600-1000 MHz, 1800-2800 MHz / R1A1 1800-2000 MHz, or other options
	Camera	Analog 1500 TVL day/night low-light camera*
	Battery	8S3P 15,000 mAh or 6S4P 20,000 mAh (50S)
	Powertrain	ESC: 8S 60-80 A; 900 KV motors
	Initiation controller	FCAT (remote/contact initiation, self-destruct)

VARIANT-SPECIFIC VIDEO FREQUENCIES		
VARDIRON 10-B PRO	VARDIRON 10-B PRO 3.3	
	Video frequencies*: 4.2-8.8 GHz	Video frequencies*: 2.7-4.0 GHz
* Frequencies, equipment and settings may be changed to meet customer requirements and the regulations of the intended region of operation.		

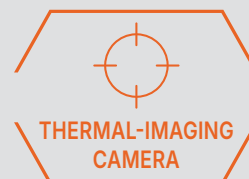
Vardiron 10-T PRO

The Vardiron 10-T PRO is a professional

performance capabilities, designed for nighttime operations and low-visibility conditions. Its carefully optimized configuration provides extended flight time and range without compromising payload capacity. Designed as a versatile, high-performance platform for more demanding missions, it retains high reliability, excellent manoeuvrability, and uncompromised performance. Multiple variants and a modular architecture make it possible to select the optimal video and radio-communication systems for each application.

VARIANTS

VARDIRON 10-T PRO VARDIRON 10-T PRO 3.3



Up to **4 kg**
PAYLOAD



LR1121 × 2
DUAL-CHANNEL
LINK



80 km
CONTROL AND
VIDEO RANGE



Up to **45 km**
WITH 1 KG
WARHEAD
Up to **30 km**
WITH 2.5 KG
WARHEAD



Up to **35 min**
FLIGHT TIME



150 km/h
MAXIMUM SPEED



Up to **1,000 m**
OPERATING
ALTITUDE



THERMAL-IMAGING CAMERA

The integrated thermal-imaging module detects targets in any lighting conditions, including complete darkness, smoke, fog and dust. High sensitivity and fine image detail support effective day-and-night operation.



NIGHT VISION

Effective operation in complete darkness



SMOKE AND FOG PENETRATION

Reliable detection in challenging conditions



LONG-RANGE DETECTION

Target detection at extended ranges



HIGH SENSITIVITY

A clear image in any operating environment

Vardiron 10-AI

WITH TERMINAL-GUIDANCE AND CRUISE-CONTROL MODULE

The Vardiron 10-AI is equipped with

cruise-control module that expands the platform's combat capabilities by providing autonomous target tracking, course holding, and stable flight for reliable mission completion.



AUTOMATIC
TERMINAL-GUIDANCE
MODULE



TARGET LOCK
CAPABILITY



TERMINAL GUIDANCE
AUTONOMOUS



EW RESILIENCE
LINK-LOSS
OPERATION



Up to 25 min
FLIGHT TIME



125 km/h
MAXIMUM SPEED



Up to
1,000 m
OPERATING
ALTITUDE

PURPOSE OF THE MODULE

The automatic terminal-guidance module enables missions to continue when the communications link is lost due to electronic warfare or radio-horizon limitations. Target-engagement effectiveness increases by a factor of 2-4.

- After the operator selects a target, the module autonomously controls the FPV drone. It automatically maintains course to the target and controls the aircraft until the target is reached, including under electronic interference, adverse weather and limited visibility.

The module's flight-control and navigation equipment supports operation in both benign and complex electronic-interference and weather conditions, at any time of day and in any season. The module provides automatic control and performs all manoeuvres typical of unmanned and piloted aircraft during climb, level flight, manoeuvring and descent.

CAPABILITIES



TARGET LOCK AND COURSE HOLD

Acquisition and course hold on moving and stationary targets at ranges of up to 500 metres.



AUTOMATIC TERMINAL GUIDANCE

Automatic course hold to the target, without operator input, from module activation until target engagement or mission cancellation by the operator.



AUTOPILOT MODE

The drone can transit EW-affected areas autonomously.

AUTOMATIC TERMINAL-GUIDANCE MODULE



PLATFORM TECHNICAL SPECIFICATIONS



Control system

Dual-channel ELRS with MiLELRS support



Control frequencies

Gemini 600-1000 MHz, 1800-2800 MHz



Camera

Analog 1500 TVL day/night low-light camera*



Battery

6S3P 15000 mAh



Powertrain

ESC: 6S 60-80 A; 900 KV motors



Initiation controller

FCAT (remote/contact initiation, self-destruct)

TERMINAL-GUIDANCE MODULE SPECIFICATIONS



TARGET ACQUISITION RANGE
Up to 500 m



COURSE-HOLD ACCURACY
 $\pm 1-2^\circ$



SUPPORTED MODES

Acquisition, Tracking, Autopilot



CONNECTION INTERFACE

Compatible with CVBS analogue cameras, CSI-2 digital cameras and CRSF control protocols

* Frequencies, equipment and settings may be changed to meet customer requirements and the regulations of the intended region of operation.

Vardiron 15

The Vardiron 15 is an unmanned platform

a range of combat scenarios.

The system's design combines an extended tactical range, high autonomy, and substantial payload capacity. This enables the Vardiron

required payload, and maintain consistent and stable performance in dynamic operational environments.

It is available in 8S (B) and 12S (PRO) variants, with extensive VTX configuration options for adaptation to different missions and operating environments.

CORE VARIANTS

VARDIRON 15

High efficiency and manoeuvrability

VARDIRON 15 PRO

Higher power and extended range



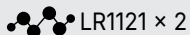
DAY
CAMERA



THERMAL-IMAGING
CAMERA



Up to **8 kg**
PAYLOAD



LR1121 × 2
DUAL-CHANNEL
LINK



80 km
CONTROL AND
VIDEO RANGE



Up to **50 km**
WITH 1 KG
WARHEAD



Up to **30 km**
WITH 2.5 KG
WARHEAD



Up to
25 min
FLIGHT TIME



125 km/h
MAXIMUM SPEED



Up to
1,000 m
OPERATING
ALTITUDE



MULTIPLE VTX CONFIGURATIONS

For different frequency bands
and operating conditions.



RELIABLE PLATFORM

A rigid structure
and wide frame.



MISSION-READY

Optimized for reconnaissance,
strike and special operations.



MODULARITY

Rapid adaptation to different
missions and payloads.

PLATFORM VARIANTS

B

8S VARDIRON 15-B **8S VARDIRON 15-B 3.3** **12S VARDIRON 15-B** **12S VARDIRON 15-B**

T

8S VARDIRON 15-T **8S VARDIRON 15-T 3.3** **12S VARDIRON 15-T** **12S VARDIRON 15-T**

Vardiron 15-R

The Vardiron 15-R is a modular airborne relay system consisting of two

relay module. This architecture provides maximum configuration flexibility, straightforward maintenance and adaptability to different missions.

1. VARDIRON 15-R CARRIER

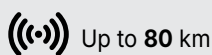
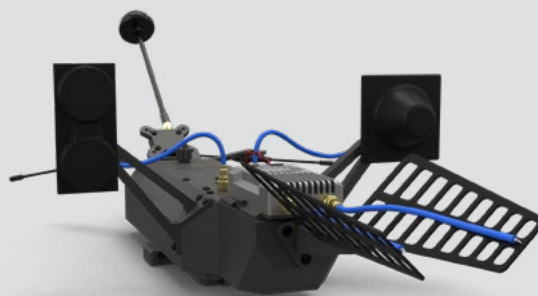
INTERCHANGEABLE MODULE

The drone lifts the relay to altitude, creating a stable communications point between the ground station and connected users. The StabX module scans the surface and maintains precise position and altitude without GPS, enabling stable flight even under active electronic warfare.

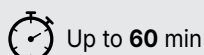
2. RELAY MODULE

INTERCHANGEABLE MODULE

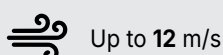
The relay extends range and improves the stability of FPV-drone control and video transmission, including over difficult terrain, in dense urban environments and where line of sight is limited.



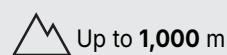
RELAY RANGE



FLIGHT TIME



WIND-GUST RESISTANCE



OPERATING ALTITUDE



STABX

Automatic position, altitude and heading hold



POWER SUPPLY

6S-12S LiPo



MODULAR ARCHITECTURE

Two independent components provide versatility, ease of maintenance and rapid module replacement



NIGHT MODE

A thermal-imaging camera ensures reliable odometry-system operation at night; day or thermal-imaging camera options are available



STABX OPTICAL STABILIZATION

Allows the drone to maintain precise position and altitude without GPS, which is critical in EW-contested environments.



RELIABLE COMMUNICATIONS

High-performance radio communication and an efficient transmission system provide reliable long-range video and data relay.



RUGGED CONSTRUCTION

The 15-inch platform withstands demanding operating conditions and maintains flight stability with a heavy payload.



RAPID DEPLOYMENT

The relay module can be installed and configured within minutes.



LANDING GEAR

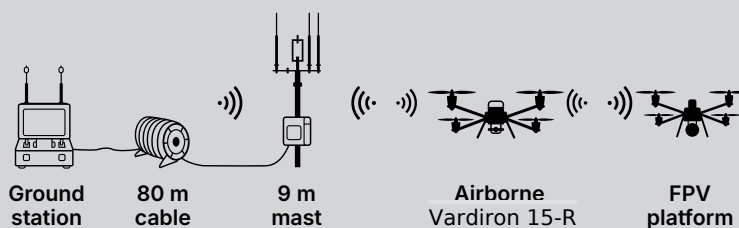
A convenient folding design enables compact transport and rapid platform deployment.



VERSATILE APPLICATION

Suitable for military and civilian missions, including reconnaissance, monitoring and communications.

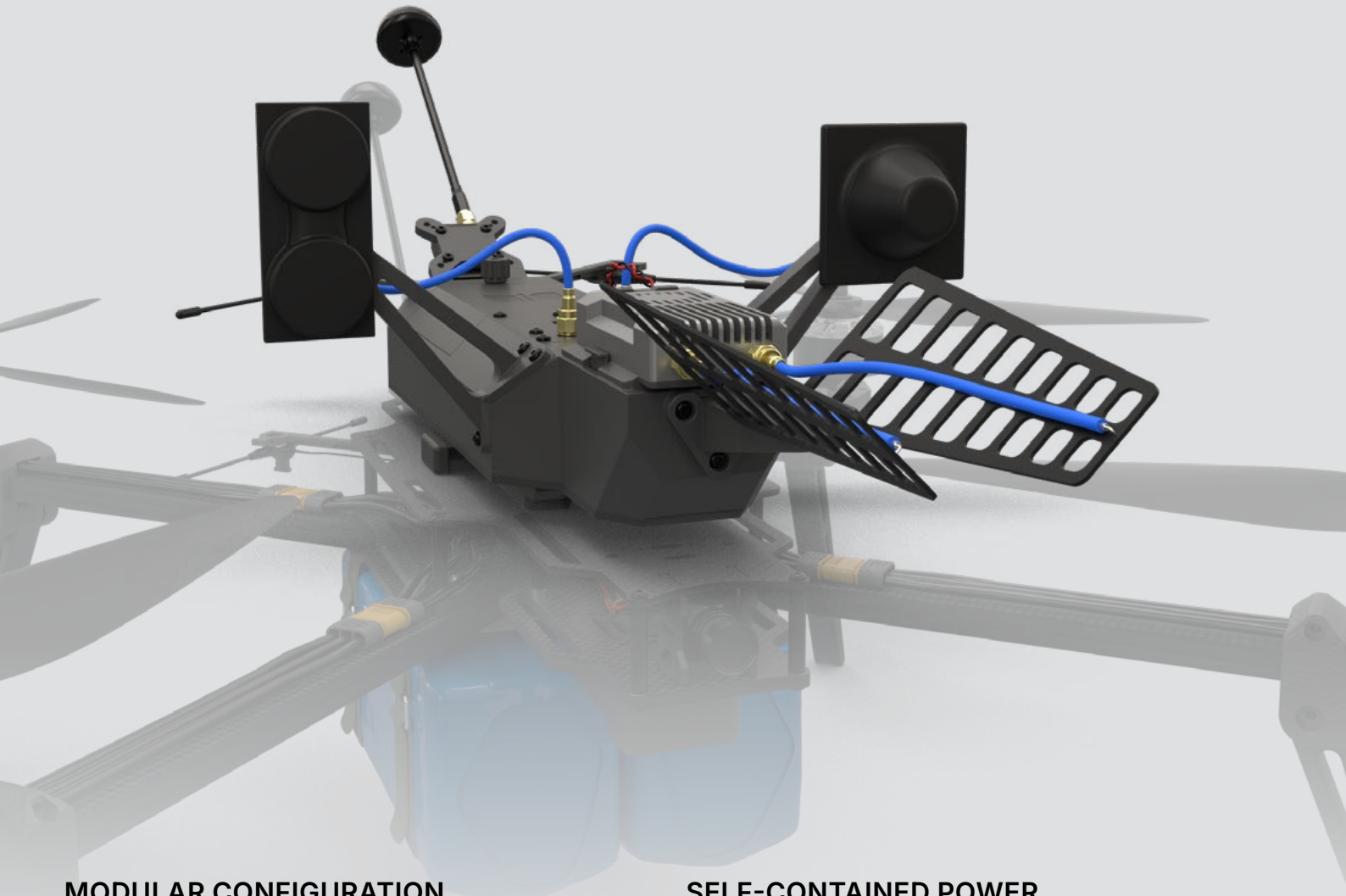
SYSTEM OPERATING CONCEPT



CONFIGURED INDIVIDUALLY TO ORDER

VARDIRON RELAY MODULE

The modular relay is designed to extend the range and improve the stability of FPV-drone control and video transmission. Operating as an intermediate communications node, it helps overcome the effects of difficult terrain, dense urban development, and other obstructions that limit direct line of sight.



MODULAR CONFIGURATION



Interchangeable TX, VRX and VTX modules allow the configuration to be adapted to the required frequencies, communications standards and specific operating conditions. This makes it possible to support different control and video-communication systems without changing the device's core architecture.

SELF-CONTAINED POWER



The relay is equipped with an interchangeable 55 Wh battery providing more than 3 hours of autonomous operation. Rapid battery replacement allows continued use without lengthy interruptions or connection to an external power source.

VARIANT	VRX	VTX	TX
5,8	5,8 GHz	4,2 GHz	RadioMaster Nomad or A1D1
3,3	3,3 GHz	4,2 GHz	RadioMaster Nomad or A1D1
4,2	4,2 GHz	3,3 GHz	RadioMaster Nomad or A1D1

PROFESSIONAL POWER ARCHITECTURE



A carefully engineered circuit design, a high-efficiency synchronous DC-DC converter and reinforced filtering provide clean, stable power for sensitive video equipment. Minimal ripple and interference support reliable video transmission without noise or distortion.

* Custom configurations are available to order.

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