

AXON
SIGYN Mkl
sUGV Recon
System



AXON SIGYN Mkl sUGV Recon System Owner's Manual

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AXON SIGYN Mkl sUGV Recon System



Product Specifications

- **Maximum Speed:** 2.57 mph [1.15 m/s]
- **Drive Time:** 120 min
- **Stationary Operation Endurance:** 300 min
- **Average Range:** 164 yd [150 m]
- **Weight (without battery):** 2.53 lbs [1.15 kg]
- **Maximum Payload:** 4.40 lbs [2 kg]
- **Operating Temperature Range:** -4 to 122 degrees F [-20 to 50 degrees C]
- **Drop Test Durability:** Fall-resistant to 119.6 ft [6 m]
- **Power Source:** 2x Li-ion cell 3000mAh (replaceable)

Product Usage Instructions

Preparing the SIGYN Mkl sUGV:

- Ensure the sUGV is fully charged and all components are securely attached.

Powering On the sUGV:

- Press the power button located on the sUGV to turn it on.

Controlling the sUGV:

- Use the provided controller or mobile app to navigate the sUGV in various directions.

Utilizing Cameras and IR LEDs:

- Switch between different cameras and activate IR LEDs as needed for optimal visibility.

Swapping Batteries:

- To replace batteries, carefully remove the old battery and insert a fully charged one within 30 seconds.

Engaging Smart Drive Modes:

- Enable smart drive modes using the embedded inertial motion sensor for efficient operation.

Handling Terrain:

- Navigate all terrains, negotiate obstacles, and use assisted driving modes for precise movements.

Real-Time Control:

- Maintain responsive real-time control to ensure smooth operation during tactical missions.

FAQ

- **Q:** Can the sUGV be used in extreme temperatures?
 - **A:** The operating temperature range of the sUGV is -4 to 122 degrees F [-20 to 50 degrees C], making it suitable for various environments.
- **Q:** How long does it take to swap batteries?
 - **A:** Batteries can be easily swapped within 30 seconds, allowing for quick replacement during operations.
- **Q:** What is the maximum payload capacity of the sUGV?
 - **A:** The sUGV can carry a maximum payload of 4.40 lbs [2 kg], ensuring versatility in mission requirements.

INTRODUCTION

THROWABLE GROUND ROBOT FOR REAL-TIME INTELLIGENCE

The Sky-Hero by Axon Sigyn Mkl is a rugged, lightweight and throwable small uncrewed ground vehicle (sUGV) purpose-built to collect and transmit real-time audio/video intelligence. Ideal for short-range reconnaissance missions in obstacle-rich environments and GPS and cellular-denied areas.

The Sky-Hero by Axon Sigyn Mkl includes front and rear wide-angle, low-light cameras, and eight controllable IR LEDs to enhance the safety and success of tactical missions.

FEATURES AND BENEFITS

CRASH-PROOF DESIGN

- Main skeleton made of aviation grade carbon fibre and reinforced polycarbonate frame

LIGHTWEIGHT AND THROWABLE

- Easily throw sUGV into spaces to explore and relay intel

DUAL CAMERA SYSTEM

- Improve situational awareness via dual night and day camera with 150° horizontal and 120° vertical angles of view

EMBEDDED INTERTIAL MOTION SENSOR

- Enable smart drive modes and auto-selection of forward-facing camera rapid deployment by a single operator in less than a minute

QUICK-SWAP BATTERIES

- Easily swap market-standard batteries within 30 seconds

ADVANCED MOTION SENSORS

- Provide pilots with multiple assisted driving modes

ALL-TERRAIN CAPABILITY

- Easily negotiate small obstacles, turn in place with a high degree of precision and successfully right overturned sUGV [when no payloads are attached]

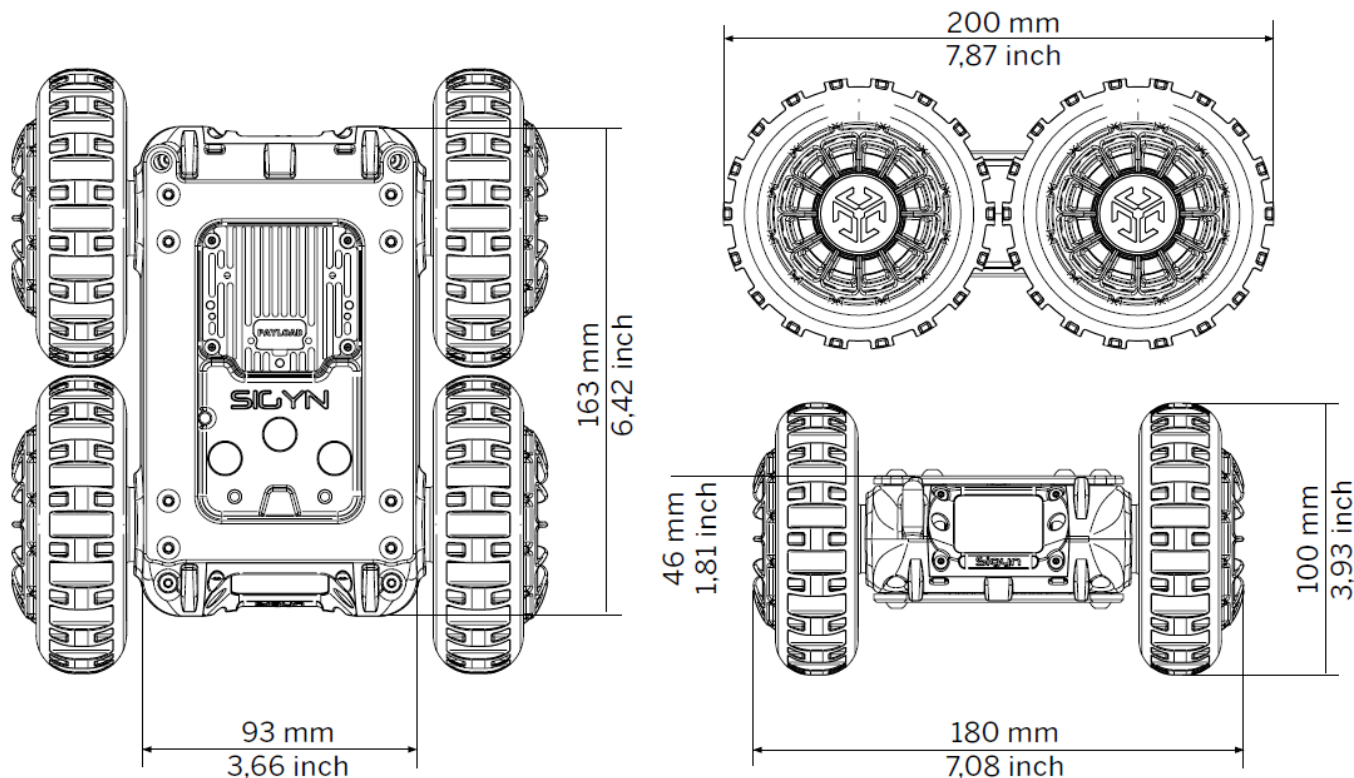
HIGH VIDEO CLARITY

- Dimmable and selectable IR LEDs on front, rear, top and underside of sUGV provide excellent lighting, including night-vision lighting

RESPONSIVE REAL-TIME CONTROL

- Minimal lag and screen freeze ensures optimal performance in tactical operations

DIMENSIONS




SPECIFICATIONS

FEATURES AND BENEFITS

MAXIMUM SPEED 2.57 mph [1.15 m/s]	DRIVE TIME 120 min	STATIONARY OPERATION ENDU RANCE 300 min
AVERAGE RANGE 164 yd [150 m]	WEIGHT [WITHOUT BATTERY] 2.53 lbs [1.15 kg]	MAXIMUM PAYLOAD 4.40 lbs [2 kg]
OPERATING TEMPERATURE RA NGE -4 to 122 degrees F [-20 to 50 degrees C]	DROP TEST DURABILITY Fall-resistant to 119.6 ft [6 m]	POWER SOURCE 2x Li-ion cell 3000mAh [replaceable in <30 seconds]
TRANSMISSION FREQUENCIES C&C: 868/915 MHz, A/V: 5.8 GHz	ENCRYPTION AES-256	STANDARD EQUIPMENT 6-axis IMU, EO/IR Camera [x2], HD Microphone, IR LEDs [x8]

Documents / Resources

The thumbnail image shows the front cover of the 'AXON SIGYN Mkl sUGV Recon System' manual. The cover features the product name at the top, a central image of the sUGV Recon System, and a list of features and benefits on the left side. The bottom of the cover shows a close-up of the device's controls.

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SIGYN Mkl sUGV Recon System, SIGYN Mkl, sUGV Recon System, Recon System, System

References

- [User Manual](#)

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