



Positive solutions for
complex requirements

Sky Hero by Axon Sigyn Mkl

Throwable Small Uncrewed Ground Vehicle (sUGV) for Tactical Reconnaissance.

Proton Dynamics offers the **Sky-Hero by AXON SIGYN Mkl**, a rugged, lightweight and throwable small uncrewed ground vehicle (sUGV) that provides Defence, law enforcement and public safety agencies with a highly deployable reconnaissance capability. Designed for tactical operations in confined spaces and obstacle-rich environments, the SIGYN Mkl enables operators to obtain real-time audio and video intelligence while maintaining safe stand-off from potential threats.

Combining front and rear wide-angle low-light cameras, controllable infrared illumination and robust communications, the SIGYN Mkl delivers critical situational awareness in environments where GPS and cellular networks may be unavailable or degraded, supporting informed decision-making during high-risk operations.



SKY-HERO
by AXON

Proton Dynamics provides a complete capability that extends beyond equipment supply. Working closely with AXON, we deliver operator training, technical support, maintenance, repair and sustainment services designed to maintain ongoing capability availability and operational readiness. Supported by local technical expertise and direct engagement with the manufacturer, Australian users have access to responsive in-country support throughout the service life of their system.

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

QUICK-SWAP BATTERIES

Easily swap market-standard batteries within 30 seconds

ADVANCED MOTION SENSORS

Provide pilots with multiple assisted driving modes

EMBEDDED INERTIAL MOTION SENSOR

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

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

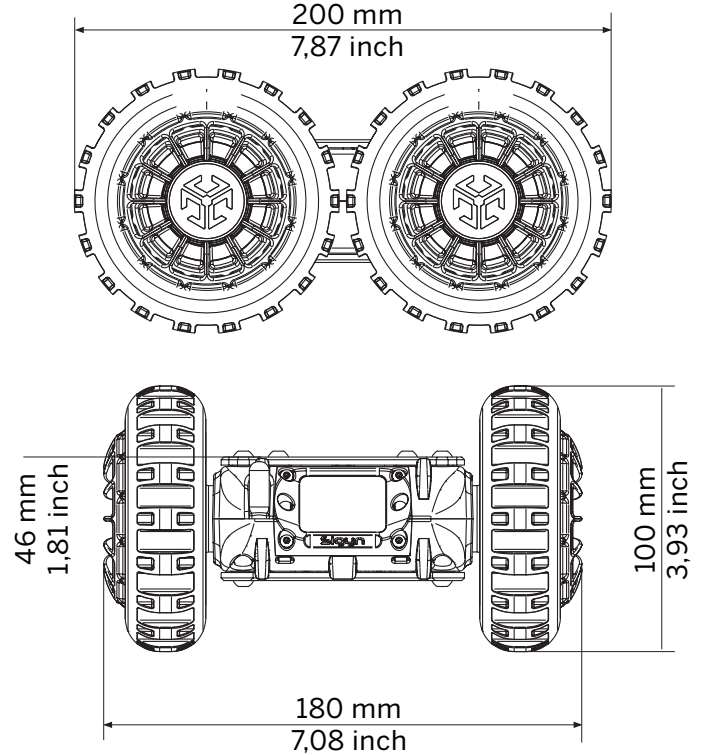
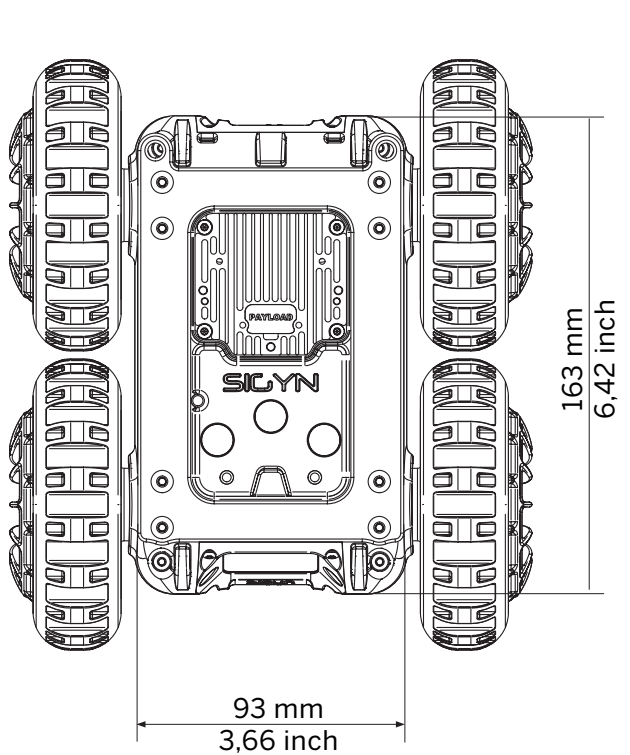
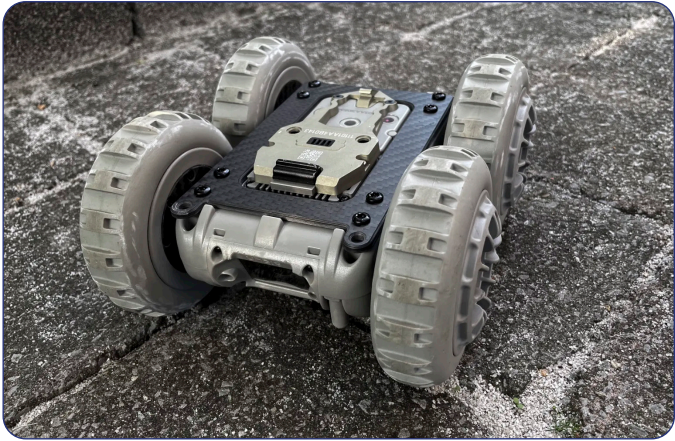
Dimmable and selectable IR LEDs on front, rear, top and underside of sUGV provide excellent lighting, including night-vision lighting

RESPONSIVE REAL-TIME CONTROL

Minimal lag and screen freeze ensures optimal performance in tactical operations

Specifications

MAXIMUM SPEED	2.57 mph [1.15 m/s]
AVERAGE RANGE	164 yd [150 m]
OPERATING TEMPERATURE RANGE	-4 to 122 degrees F [-20 to 50 degrees C]
TRANSMISSION FREQUENCIES	C&C: 868/915 MHz, A/V: 5.8 GHz
DRIVE TIME	120 min
WEIGHT [WITHOUT BATTERY]	2.53 lbs [1.15 kg]
DROP TEST DURABILITY	Fall-resistant to 19.6 ft [6 m]
ENCRYPTION	AES-256
STATIONARY OPERATION ENDURANCE	300 min
MAXIMUM PAYLOAD	4.40 lbs [2 kg]
POWER SOURCE	2x Li-ion cell 3000mAh [replaceable in <30 seconds]
STANDARD EQUIPMENT	6-axis IMU, EO/IR Camera [x2], HD Microphone, IR LEDs [x8]



Monitor tactical wearable screen

Compact multichannel monitor for hands-free intel.

The Sky-Hero by Axon Monitor is a high-resolution, 2.7 inch screen that can be mounted on a user's arm, backpack or protective shield to provide access to live-streamed audio and video intel from up to four separate Sky-Hero devices. Real-time audio and video intel facilitates tactical operations, enhances situational awareness and enables faster response to threats. The Sky-Hero by Axon Monitor is compatible with Loki Mkl, Sigyn Mkl and Narfi Mkl, and can provide audiovisual livestreams from in both motion or sentry mode.



Features and benefits

MULTI-STREAM CAPABILITY

Toggle between A/V feeds of up to four deployed vehicles and cameras using easy-access channel buttons

EASY-TO-USE INTERFACE

Quickly change pre-programmed frequencies or modify screen parameters through visual interface

VERSATILE MOUNTING OPTIONS

Easily mount on user's arm, backpack, protective shield or picatinny rail without impeding other tactical gear

DURABLE CONSTRUCTION

High-grade aluminum and polycarbonate frame with Corning Gorilla Glass screen for extra durability

NARFI VIEWER

Easily pair Narfi viewer with monitor without the need for GCS Controller

ADVANCED DESCRAMBLING TECHNOLOGY

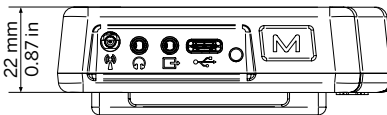
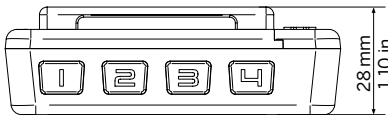
Equipped with Sky-Hero's 8-bit FPGA descrambling technology

ENHANCED RANGE WITH EXTERNAL ANTENNA

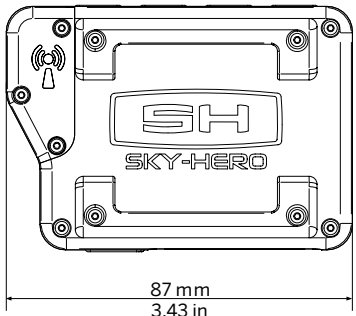
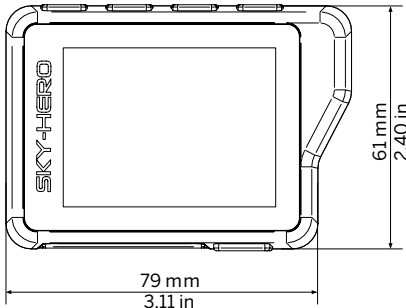
Optional external plug-in antenna provides increased range

USB-C + 3.5 MM HEADPHONE JACK CONNECTIONS

USB-C connection for easy charging, connection to an external battery or for basic control of the Narfi Mkl Pole Camera Head. Two embedded jack connectors for headphones and external streaming of A/V feeds



WEIGHT	5oz [145g]
RUN TIME	180 min
CONSTRUCTION MATERIALS	Polycarbonate and aluminum
VIDEO DESCRAMBLING	FPGA 8 bit
SCREEN SIZE	2.7 in [diagonal]
POWER SOURCE	Li-ion cell 3.7V 1800 mAh [embedded and rechargeable]
OPERATING TEMPERATURE RANGE	-4 to 122 degrees F [-20 to 50 degrees C]
TRANSMISSION RANGE	LOS 1 mi, NLOS 164 yd [LOS 1.5 km, NLOS 150 m]
DISPLAY RESOLUTION	960x240 px
CONNECTIVITY OPTIONS	Power USB-C, audio-video out jack 2.5, headphone jack 2.5, external antenna MMCX
TRANSMISSION FREQUENCIES	8 channels from 5725 MHz to 5865 MHz



Gear with PROJECT7 Tactical backpacks and pouches

Tailor-made to accommodate the entire Sky-Hero robotic suite.

Sky-Hero by Axon Gear is a collaboration with PROJECT7 to build a line of fitted pouches and covers that are fully compatible with Sky-Hero's Unified Indoor Tactical Recon Robotics platform. These pouches ensure maximum efficiency, functionality, durability and in-mission comfort for the operator.

Offerings

MODULAR MISSION-SPECIFIC BACKPACK

The PROJECT7 Integrated Load Bearing FLEX (ILB-FLEX) Backpack is a completely modular pouch which allows the operator to configure the pack to their mission needs

PROTECTIVE GCS CARRIER SYSTEM

The PROJECT7 GCS Integration System mounts directly to armor via MOLLE systems or PALS, and carries the GCS MkII inside a padded, protective sleeve. Once opened, the system allows for complete flight operations without having to remove the GCS from the carrier

Features and benefits

DURABLE LIGHTWEIGHT CONSTRUCTION

Built from the most durable lightweight materials available, including Blue Force Gear ULTRAcomp and 500D CORDURA

VERSATILE ATTACHMENT OPTIONS

Exterior and interior pack surfaces are lined with webless MOLLE systems or PALS for easy attachment of Sky-Hero by Axon small uncrewed ground vehicle (sUGV) and small uncrewed air vehicle (sUAV) pouches and third-party gear.

USER-DRIVEN DESIGN

Designed in conjunction with end users, all PROJECT7 accessories are purpose built for the specific mission needs of operators.

ORGANIZED COMPONENT STORAGE

Tailor-made storage compartments offer organized layout of system components for fast access



Information supplied by Axon



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