SKYSTAR
DEFENSE

UAV

Manufactured
in the USA

SkyStarDefense.com

ABOUT SKYSTAR DEFENSE

SkyStar Defense, established in 2022, is a leading provider of Unmanned Aerial Vehicles (UAVs), Unmanned Surface Vehicles (USVs), and Armored Vehicles in the U.S. and globally. We integrate advanced security systems with comprehensive manufacturing and operational capabilities to deliver innovative solutions across North America, Europe, the Middle East, and Africa.

We specialize in addressing the unique challenges of critical infrastructure sectors such as border patrol, seaports, air navigation agencies, and defense ministries. Our tailored solutions enhance security by detecting and preventing threats like narcotics trafficking, illegal arms trade, and smuggling.

With advanced engineering and R&D capabilities, SkyStar Defense ensures efficient deployment across critical infrastructure projects, improving surveillance and security measures. Our Unmanned Aerial Systems (UAS) and Unmanned Surface Vehicles (USVs) support a range of applications, including surveillance, reconnaissance, precision agriculture, border patrol, and disaster management.

We collaborate with allied nations to enhance global security using ITAR-free technology, with all software developed in-house. Our commitment to world-class drone technology, armored vehicle innovation, competitive pricing, and superior performance in durability, communication, and adaptability sets us apart, positioning SkyStar Defense as an industry leader.

SKYSTAR DEFENSE

RN SERIES

RN-1

The RN-1 is a high-performance unmanned aerial system (UAS) designed for endurance, reliability, and versatility. Its fixed-wing design and robust landing gear enable stable runway-based takeoffs and landings. With over 12 hours of endurance, it supports extended surveillance, reconnaissance, and data-gathering missions with minimal refueling or battery changes. The RN-1 has a 45 kg maximum takeoff weight (MTOW) and can carry up to 11 kg of payload, ensuring efficient, long-duration operations with enhanced mission readiness.

FLIGHT RANGE UP TO **1300 KM** OPERATING ALTITUDE UP TO **4700 KM**

COMPETITIVE ADVANTAGES

Featuring cutting-edge technology and improved capabilities, delivering exceptional performance, reliability, and efficiency across diverse applications.

Customizable to end-user

Payload Capacity	Up to 11 kg
Video Data Link Range	240 km
Endurance	12+ hrs
Cruising Speed	100 km/h
Range of Speed	80-140 km/h
Operating Altitude	Up to 4700 m
Flight Range	Up to 1300 km
Wingspan	5 m
Length	2.85 m
Dry Weight	22 kg
MTOW (Take-Off Weight)	45 kg
Launch System	Take off using runway
Recovery System	Land using runway
Power Supply	100 cc Hybrid engine, runs on 91 gasoline

240 km
Video Data Link Range

12+ hours
Endurance

Up to 11 kg
Payload Capacity

100 cc
Hybrid Engine and 300W Power Supply

RN SERIES
RN-3

A high-performance unmanned aerial system (UAS) designed for exceptional endurance, reliability, and operational versatility. Featuring a fixed-wing design with a robust landing gear system, it enables stable runway-based takeoffs and landings. With an outstanding endurance of over 18 hours and a range of 1,800 km, the RN-3 is optimized for long-duration missions, making it ideal for extended surveillance, reconnaissance, and data-gathering operations without the need for frequent refueling.

FLIGHT RANGE UP TO **1800 KM** OPERATING ALTITUDE UP TO **4700 KM**

COMPETITIVE ADVANTAGES

Featuring cutting-edge technology and improved capabilities, delivering exceptional performance, reliability, and efficiency across diverse applications.

Customizable to end-user

Payload Capacity	Up to 15 kg
Video Data Link Range	240 km
Endurance	18+ hrs
Cruising Speed	100 km/h
Range of Speed	80-140 km/h
Operating Altitude	Up to 4700 m
Flight Range	Up to 1800 km
Wingspan	8 m
Length	2.85 m
Dry Weight	22 kg
MTOW (Take-Off Weight)	55 kg
Launch System	Take off using runway
Recovery System	Land using runway
Power Supply	100 cc Hybrid engine, runs on 91 gasoline

240 km
Video Data Link Range

18+ hours
Endurance

Up to 15
Payload Capacity

100 cc
Hybrid Engine and 300W Power Supply

VT SERIES

VT-2

Introducing the VT-2, an advanced vertical takeoff and landing (VTOL) system designed for extended operational capabilities. With an impressive endurance exceeding 10 hours and a maximum altitude of 3,800 meters.

The VT-2 delivers exceptional performance across a variety of challenging environments. Its robust design supports a maximum takeoff weight (MTOW) of 55 kilograms and accommodates payloads of up to 11 kilograms, making it highly versatile for diverse mission profiles. Additionally, its ability to take off and land in any location ensures unmatched flexibility and adaptability to meet the demands of modern aerial operations.

FLIGHT RANGE UP TO **1300 KM** OPERATING ALTITUDE UP TO **3700 KM**

COMPETITIVE ADVANTAGES

Featuring cutting-edge technology and improved capabilities, delivering exceptional performance, reliability, and efficiency across diverse applications.

Customizable to end-user

Payload Capacity	Up to 11 kg
Video Data Link Range	240 km
Endurance	10+ hrs
Cruising Speed	100 km/h
Range of Speed	80-140 km/h
Operating Altitude	Up to 3700 m
Flight Range	Up to 1300 km
Wingspan	5 m
Length	2.85 m
Dry Weight	32 kg
MTOW (Take-Off Weight)	55 kg
Launch System	VTOL
Recovery System	VTOL
Power Supply	100 cc Hybrid engine, runs on 91 gasoline

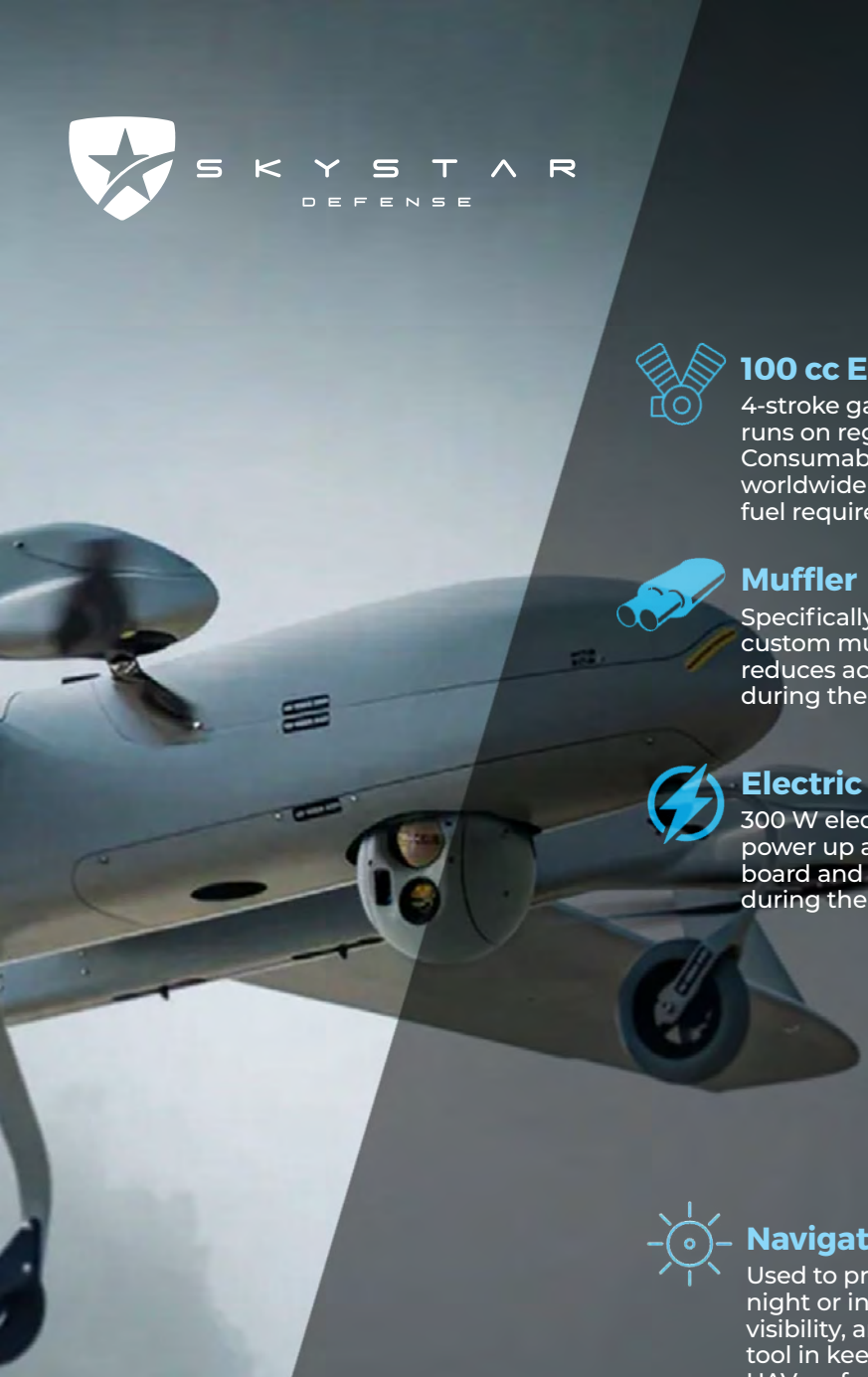
240 km
Video Data Link Range

10+ hours
Endurance

Up to 11 kg
Payload Capacity

100 cc
Hybrid Engine and 300W Power Supply

SKYSTAR DEFENSE



ENGINE MODULE

100 cc Engine
4-stroke gas engine, that runs on regular 91 fuel. Consumables are available worldwide and no special fuel required.

Integrated Sensors
See status of the engine during the flight, thanks to the RPM, temperature, air temperature, fuel level and other sensors.

Muffler
Specifically designed custom muffler greatly reduces acoustic signature during the flight.

Remote Starter
Start engine from a distance with a push of a button, even during the flight the engine can be automatically restarted by flight controller.

Electric Generator
300 W electric generator to power up all equipment on board and charge batteries during the flight.

Fuel Tank
Integrated 11 liters carbon fiber fuel tank to support your long-endurance missions. With mil-grade fuel valve for quick fueling.

UAV FEATURES

Navigation Lights
Used to prevent collisions at night or in times of reduced visibility, and are an essential tool in keeping people and UAVs safe.

Automatic Flight Along the Route
Plan the mission and execute it perfectly.

Landing Gear with Braking System
Reduces the distance required for a runway landing.

ADS-B Transponder
Allows the UAV to determine its position and periodically broadcast it, enabling it to be tracked.

Automatic Takeoff & Landing
Fully automatically remote take-off and landing without human intervention.

Anti-jamming
A secure encrypted connection and the dual-datalink system ensure that UAV can't be jammed.

SKYSTAR DEFENSE

AVAILABLE PAYLOADS

LiDAR

LiDAR (Light Detection and Ranging) is a remote sensing technology that uses laser light to measure distances and create detailed 3D maps and models of objects, surfaces, and environments.

Synthetic Aperture Radar (SAR)

SAR is a remote sensing technology that uses radar to create high-resolution images of objects, landscapes, and surfaces. Unlike traditional imaging, SAR works effectively in all weather conditions, day or night.

Cellphone Tracker (IMSI Catcher)

An IMSI catcher is a surveillance device that mimics a cell tower to intercept and monitor mobile phone communications. It captures data such as the phone's International Mobile Subscriber Identity (IMSI), call metadata, SMS, and voice calls

Radio Repeater

A radio repeater is a device that extends the range of radio communications by receiving, amplifying, and retransmitting radio signals. It is used to overcome distance, obstacles, and interference, enabling reliable communication across larger areas.

COMMUNICATION OPTIONS

LoS Communication

Offers a range of up to 180 km with AES-256 encryption, featuring two encrypted data links and utilizing Frequency Hopping Spread Spectrum (FHSS) for secure communication.

LTE Connectivity

Video and telemetry transmission rely on cellular network range, are VPN-protected for security, and operate beyond visual line of sight.

SATCOM

Offers unlimited range with reliable video and telemetry transmission, operates with a low radio signature, and is capable of functioning beyond visual line of sight.

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