

Skyship Services, Inc.

17000 Sandhill Rd, Winter Garden, FL 34787

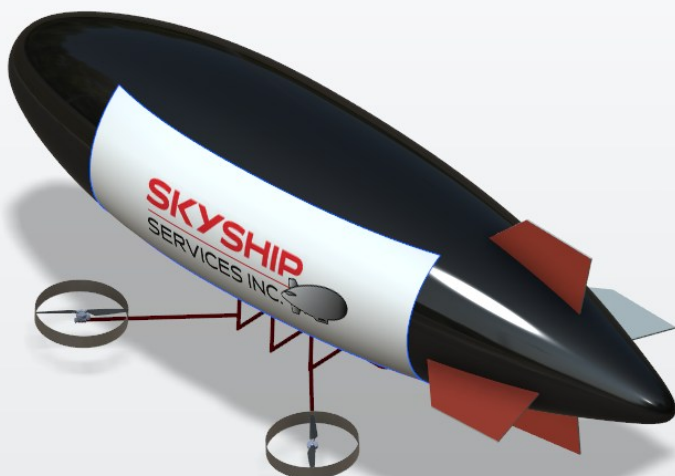
skyshipservices.com

info@skyshipservices.com

QUAD SKYSHIP 2000

Autonomous Quad-Propulsion Aerostat / Airship Platform

PATENT PENDING • SYSTEM IN DEVELOPMENT



Quad-propulsion arrangement

RAPID MOBILE DEPLOYMENT



Transports in a fully or partially inflated state in a standard 40 ft container or trailer, which doubles as the launch and recovery platform — no fixed launch site, hangar, or mooring infrastructure required.

Helium buoyancy + active all-electric quad-propulsion for automated vertical launch & recovery — tethered to 400 ft AGL or untethered to 1,200 ft AGL.

SYSTEM SPECIFICATIONS

Payload @ 400 ft AGL

~100 lb tethered / 120 lb untethered

Payload @ 800 ft AGL

~70 lb tethered / 115 lb untethered

Payload Power

6 kW

Digital Display Option

8 sq m per side

Est. Operating Cost

~\$350/hr — >10× lower than manned aircraft

Mission Time

1–2 weeks tethered; mission-dependent untethered

Length / Hull Diameter / Volume

~30 ft / 7 ft / 2,000 cu ft

System Weight

~55 lb (est.)

THE PROBLEM WE SOLVE

1

Drone/UAS propulsion steals payload capacity

In conventional drones and UAS, propulsion consumes ~100% of aerodynamic lift — starving payload weight and power and capping endurance at minutes.

2

Manned systems cost thousands per flight hour

Aerostats, airships, helicopters, and airplanes run \$2,000–\$5,000/hr (helicopters) up to \$5,000–\$15,000/hr (maritime patrol aircraft) — with crews to match.

3

Passive aerostats lack active stabilization

Tethered balloons cannot hold position or keep payloads aimed during wind events.

4

Heavy fixed infrastructure slows deployment

Helium tanks, mooring stations, hangars, and helipads make rapid relocation costly and slow.

HOW THE QUAD SKYSHIP 2000 IS DIFFERENT

>10× lower operating cost

At ~\$350/hr, the Quad Skyship 2000 operates at more than 10× lower cost than the manned helicopters and aircraft it replaces.

One-person automated deploy

Remote/automated vertical launch and recovery — a single operator can deploy and recover the system, no ground crew.

Stable in ~30-knot wind gusts

Four thrusters at 7–12° actively counter gusts from any direction, holding stable payload aim in winds up to ~30 knots.

Buoyancy carries the lift

Helium provides main lift, so propulsion (<30% of takeoff weight) is freed to power the payload — not just stay aloft.

Swarm-capable

One operator can command multiple deployed Quad Skyships simultaneously for wide-area or multi-point coverage.

Containerized & infrastructure-free

Transports fully or partially inflated in a standard 40 ft container or trailer, which doubles as the launch and recovery platform — no fixed site, hangar, or mooring required.

TARGET APPLICATIONS

ISR & border security (counter-UAS) · power line & pipeline inspection · wildfire detection & disaster comms · precision agriculture monitoring · aerial digital signage

PARTNER WITH US

IN FINAL-STAGE DEVELOPMENT

We are seeking end-user and technology partners to focus final development around real-world mission requirements. Contact us at info@skyshipservices.com

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Skyship Services, Inc. | 17000 Sandhill Rd, Winter Garden, FL 34787 | skyshipservices.com | XXX@skyshipservices.com