

CARRIER · COAXIAL X8

HX8

Our flagship coaxial octocopter — unparalleled motor redundancy, extreme foldability, and the stability to safely lift heavy payloads.

8 KG

MAX PAYLOAD

43 MIN

MAX FLIGHT TIME

X8

COAXIAL
PROPULSION

12,000 FT

SERVICE CEILING

UNIVERSAL

PAYLOAD CONNECTOR

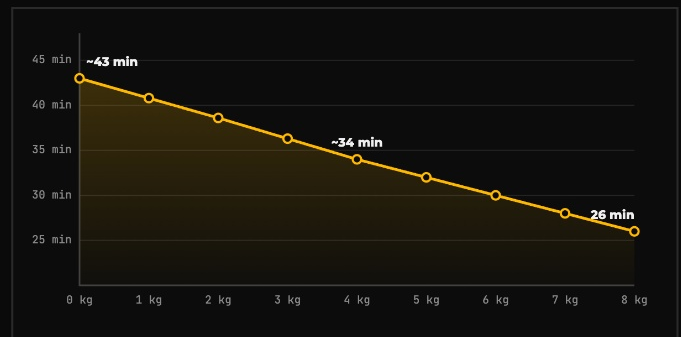


CARRIER HX8.

Developed for industrial, scientific, and military demand for an exceptionally safe and foldable system, the Carrier HX8 uses a robust coaxial octocopter framework that delivers unparalleled motor redundancy.

Manufactured in the USA to the tightest tolerances, the HX8 is the most adaptable, powerful, and versatile coaxial octocopter in the Carrier series — built for mission reliability across the most demanding deployments.

PERFORMANCE FLIGHT TIME VS. PAYLOAD



TESTED AT 120 M AGL · 2-MIN LANDING RESERVE · VARIES WITH ALTITUDE, TEMP & WIND

02 - CONFIGURATION HIGHLIGHTS

| | | | | |
|---|---|--|--|---|
| <p>01</p> <p>8 kg MAX PAYLOAD</p> | <p>02</p> <p>43 min MAX FLIGHT TIME</p> | <p>03</p> <p>X8 COAXIAL REDUNDANCY</p> | <p>04</p> <p>~40% FOLDED FOOTPRINT</p> | <p>05</p> <p>21" MOUNTING WIDTH</p> |
|---|---|--|--|---|

03 - GROUND CONTROL

GROUND CONTROL OPTIONS.

OPTION A · HANDHELD - COMMERCIAL & MILITARY

OPTION B · CONSOLE



C-NAVIGATOR

COMMERCIAL

RUGGED HANDHELD GCS

- 8" HD Touchscreen
- Real-Time Video · Low Latency
- MAVLink Native
- NDAA Compliant

C-SROC

MILITARY / DEFENSE

SOLDIER ROBOTIC CONTROLLER

- 7" WXGA Glove-Touch
- MIL-STD-810-H · IP65
- Nett Warrior · AES-256 / STIG
- NDAA Section 848

C-GCS

CONSOLE

PROFESSIONAL MISSION COMMAND

- Dual 19" HD Displays
- Real-Time Telemetry
- 2-Axis Payload & Gimbal
- NDAA Compliant

■ ALL STATIONS · MAVLINK NATIVE · NDAA SECTION 848

04 - SPECIFICATIONS

TECHNICAL SPECIFICATIONS.

A POWERPLANT & BATTERIES

| | | | |
|------------------|---------------------------------|--------------------|---------------------|
| BATTERY TYPE | 12S1P Smart LiPo (2x Batteries) | BATTERY CONNECTOR | AS150U-F Anti-Spark |
| BATTERY CAPACITY | 16,000 mAh per battery | RECHARGE TIME | 1.5 hours |
| TOTAL CAPACITY | 32,000 mAh | BATTERY LIFE CYCLE | 250 Flights |
| PEAK VOLTAGE | 50.4 V | ORIGIN | Made in USA |
| NOMINAL VOLTAGE | 44.4 V | | |

B AIRFRAME & PERFORMANCE

| | | | |
|----------------------|-----------------------------------|-----------------------|---|
| FRAME TYPE | Coaxial Octocopter (X8, Foldable) | PROPELLERS | Carbon Fiber w/ Aluminum Hub (29.2" x 9.2") |
| MAX HORIZONTAL SPEED | 15 m/s · 33.6 mph | MAX TAKEOFF WEIGHT | 25 kg · 55 lbs |
| MAX VERTICAL SPEED | 2.5 m/s · 5.6 mph | EMPTY WEIGHT | 9.8 kg · 21.5 lbs |
| SERVICE CEILING | 12,000 ft · 3,658 m AMSL | DIMENSIONS (UNFOLDED) | Prop tip 2,389 mm · H 753 mm |
| MAX FLIGHT TIME | 43.2 min (no payload) | TRANSPORT (FOLDED) | 705 x 705 x 273 mm |
| MOTORS | 8x KV100 equivalent | OPERATING TEMP | -20 °C to 49 °C · IP43 |

C COMMAND, CONTROL & SAFETY

| | | | |
|-------------------|---|-----------------------|---------------------------|
| FLIGHT CONTROLLER | Cube Orange (Custom ArduPilot) | PROPULSION REDUNDANCY | X8 Coaxial |
| RADIO FREQUENCIES | 2.4 GHz ISM · 902-928 MHz | FAILSAFES | Radio & Battery Failsafes |
| DATA RANGE | 12.5 mi · 20 km (Extended-Range Optional) | FLIGHT TRACKING | ADS-B Receiver |
| GNSS | Dual RTK GNSS | GROUND CONTROL | Harris C-GCS / HereLink |
| IMU REDUNDANCY | Triple Redundant IMU | COMPLIANCE | NDAA Compliant |

D PAYLOAD INTERFACE

| | | | |
|---------------------|--------------------------------|---------------------|-------------------------------------|
| MOUNT TYPE | Dampened Modular Quick-Release | AUX POWER OUT | 5.3 V · 12/14 V · 24/28 V · 48 Vbat |
| MOUNTING WIDTH | 21 inches | DATA INTERFACE | UART / Ethernet / CAN / GPIO / USB |
| MAX PAYLOAD | 8 kg · 17.6 lbs | COMPATIBLE PAYLOADS | Professional Payload Library |
| MOUNT COMPATIBILITY | Universal Payload Connector | | |



HARRIS AERIAL

CARRIER HX8

HX8 · PRODUCT BROCHURE

HX8.

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