

CARRIER · COAXIAL X8

HX8

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

NDAA COMPLIANT

MADE IN USA

8 KG / 17.6 LBS	43 MIN	X8	32,000 mAh	UNIVERSAL
MAX PAYLOAD	MAX FLIGHT TIME	COAXIAL PROPULSION	CAPACITY	PAYLOAD CONNECTOR

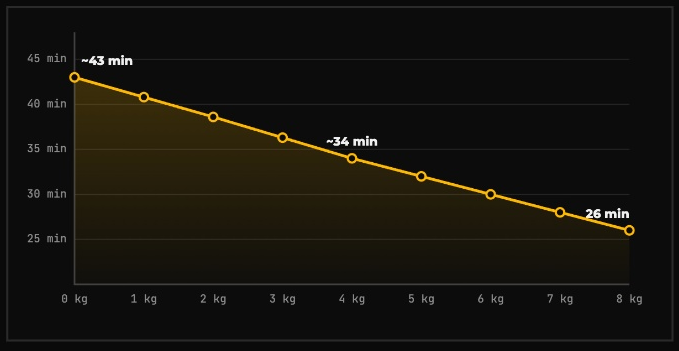


CARRIER HX8.

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

8 kg	43 min	X8	~40%	21”
MAX PAYLOAD	MAX FLIGHT TIME	COAXIAL REDUNDANCY	FOLDED FOOTPRINT	MOUNTING WIDTH

03 — GROUND CONTROL

GROUND CONTROL OPTIONS.

OPTION A · HANDHELD — COMMERCIAL & MILITARY

OPTION B · CONSOLE



C-NAVIGATOR

COMMERCIAL

RUGGED HANDHELD GCS

- 8" Samsung TAB 5
- IP65
- AES-256 / STIG
- NDAA Compliant



C-SROC

MILITARY / DEFENSE

SOLDIER ROBOTIC CONTROLLER

- 8" Samsung TAB 5 Tactical Edition
- MIL-STD-810-H · IP65
- Nett Warrior · AES-256 / STIG
- NDAA Section 848



C-GCS

CONSOLE

PROFESSIONAL MISSION COMMAND

- 12-Channel Functionality
- Sunlight-Viewable Display
- 2-Axis Payload & Gimbal
- NDAA Compliant

ALL STATIONS · MAVLINK NATIVE · NDAA SECTION 848

SPECIFICATIONS

TECHNICAL SPECIFICATIONS.

A POWER SYSTEM

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

B AIRFRAME & PERFORMANCE

FRAME TYPE	Coaxial Octocopter (X8, Foldable)
MAX HORIZONTAL SPEED	15 m/s · 33.6 mph
MAX VERTICAL SPEED	2.5 m/s · 5.6 mph
SERVICE CEILING	12,000 ft · 3,658 m AMSL
MAX FLIGHT TIME	43.2 min (no payload)
MOTORS	8× KV100 equivalent
PROPELLERS	Carbon Fiber w/ Aluminum Hub (29.2" × 9.2")
MAX TAKEOFF WEIGHT	25 kg · 55 lbs
EMPTY WEIGHT	9.3 kg · 20.5 lbs
WEIGHT WITH BATTERIES	18.4 kg · 40.5 lbs
DIMENSIONS (UNFOLDED)	Prop tip 2,389 mm · H 753 mm
TRANSPORT (FOLDED)	705 × 705 × 233 mm
OPERATING TEMP	-20 °C to 49 °C · IP43

C COMMAND, CONTROL & SAFETY

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

D PAYLOAD INTERFACE

MOUNT TYPE	Dampened Modular Quick-Release
MOUNTING WIDTH	21 inches
MAX PAYLOAD	8 kg · 17.6 lbs
MOUNT COMPATIBILITY	Universal Payload Connector
PAYLOAD POWER OUT	5 V · 12 V · 24 V · 48 V Regulated
DATA INTERFACE	UART / Ethernet / CAN / GPIO / USB
COMPATIBLE PAYLOADS	Professional Payload Library

HARRIS AERIAL

CARRIER HX8

HX8 · PRODUCT BROCHURE



HX8.

— CONTACT

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