



CARRIER • TETHERED PERSISTENCE

HX8 TETHER

Uncompromising heavy-lift meets virtually limitless flight duration — powered by the LEAP Solo 5K for continuous power and secure gigabit data.



21 LBS
9.5 KG
MAX PAYLOAD

24 HR
FLIGHT TIME

5 KW
CONTINUOUS POWER

30 GBPS
SECURE DATA

400 FT
MAX ALTITUDE AGL



CARRIER HX8 TETHER.

The Carrier HX8 Tether is not just a drone — it is a complete, persistent aerial infrastructure. Merging the extreme redundancy of the HX8 coaxial octocopter with the 5,000 W continuous power of the LEAP Solo 5K, operators maintain uninterrupted airborne operations for up to 24 hours.

Housed in rugged, highly portable cases, the entire ecosystem is engineered for rapid two-person deployment across the most demanding industrial, scientific, and military applications.

ENDURANCE PERSISTENT FLIGHT

24 HR

Continuous airborne overwatch on 5 kW shore-fed power — hold station without landing to recharge.

| 5 KW CONTINUOUS | 400 FT AGL

| 30 GBPS SECURE

02 — SYSTEM HIGHLIGHTS

21 lbs

MAX PAYLOAD

24 hr

FLIGHT TIME

5 kW

CONTINUOUS POWER

30 Gbps

FIBER DATA

Fly-by-Tether

RF-DENIED READY

03 — SYSTEM ARCHITECTURE

GROUND-TO-AIR ARCHITECTURE.

THREE INTEGRATED NODES — PERSISTENT • SECURE • MISSION-CRITICAL

		
HX8 + AC-DC NODE 01 • AIRBORNE TETHERED AERIAL UNIT 21 lbs Payload Capacity - X8 Coaxial Propulsion - Up to 400 ft AGL - Onboard AC-DC Converter	TETHER & POWER NODE 02 • HYBRID TETHER LEAP SOLO 5K 5,000 W Continuous - Auto-Tensioning Winch 2–3 Fiber • 20–30 Gbps 220 VAC Shore Input	ELECTRONICS BAY NODE 03 • GROUND MISSION CONTROL RACK 8U / 10U / 12U Rack - Integrated Data Router - Sat / LTE / Microwave Backhaul - Weatherproof Display

■ TWO-PERSON DEPLOYMENT • 220 VAC SHORE OR GENERATOR • USAS LEAP SOLO 5K

SPECIFICATIONS
TECHNICAL SPECIFICATIONS.
A POWER & TETHER SYSTEM

INPUT POWER	220 VAC (Shore • Generator • Vehicle)	TETHER LENGTH	400 ft AGL Max (122 m)
CONTINUOUS POWER	5,000 W	ACCESSORY POWER	48 V Integrated Bay
PROPULSION POWER	50-60 VDC (12S)	TETHER PARTNER	USAS LEAP SoLo 5K
TETHER CONTROL	Automatic Motor-Controlled Winch	DEPLOYMENT	Two-Person • Rugged Cases

B AIRFRAME & PERFORMANCE

AIRFRAME	Carrier HX8 (X8 Coaxial, Foldable)	DEPLOYED (TIP-TO-TIP)	2,425 mm • 95.5"
MAX SPEED	33.6 mph • 14 m/s	DEPLOYED HEIGHT	645 mm • 25.4" (Collapsible)
MAX PAYLOAD	21 lbs • 9.5 kg	EMPTY WEIGHT	22.7 kg • 50 lbs
MAX TAKEOFF WEIGHT	55 lbs • 25 kg	OPERATING TEMP	-29 °C to 49 °C • -20 °F to 120 °F
MOTORS / PROPELLERS	8x KV100 • 28.2" x 9.2"		

C COMMAND, CONTROL & SAFETY

FLIGHT CONTROLLER	Cube Orange+ (Custom ArduPilot)	PROPULSION REDUNDANCY	X8 Coaxial
RADIO FREQUENCIES	2.4 GHz ISM • 902-928 MHz	FLIGHT TRACKING	ADS-B Receiver
GNSS	Dual RTK GNSS	TELEMETRY	Real-Time Voltage & Current
IMU REDUNDANCY	Triple Redundant IMU	GROUND CONTROL	C-GCS / C-NAV / C-SRoC / HereLink
		COMPLIANCE	NDAA Compliant

D DATA & CONNECTIVITY / PAYLOAD

LINK TYPE	Fly-By-Tether (RF-Denied Ready)	RACK OPTIONS	8U / 18U / 12U Shock Mount
DATA THROUGHPUT	2 Fibers (20 Gbps) / 3 Fibers (30 Gbps)	MOUNT TYPE	Dampened Modular Quick-Release
PAYLOAD DATA PORTS	2x Gigabit Ethernet • 1x PoE+ • 1-2 Fiber	MOUNT COMPATIBILITY	Universal Payload Connector
BACKHAUL READY	LEO/GEO Sat • LTE/5G • Microwave PtP	PAYLOAD POWER OUT	5 V • 12 V • 24 V • 48 V Regulated
		DATA INTERFACE	UART / Ethernet / CAN / GPIO / USB



HARRIS AERIAL

CARRIER HX8 TETHER

HX8 TETHER • PRODUCT BROCHURE

HX8 TETHER.

— CONTACT

WEB

harrisaerial.com

EMAIL

info@harrisaerial.com

PHONE

(407) 725-7886