



Carrier Hx8

GENERAL

Maximum Takeoff Weight	55 lbs 25 kg
Empty Weight	21.5 lb 9.8 kg
Max Payload	17.6 lb 8 kg
Flight Time	48 min. (No Payload)
Max Speed	33.6 mph 15 m/s
Max Vertical Speed	5.6 mph 2.5 m/s
Max Lean Angle	30 degrees
Dimensions (Unfolded)	- Prop Tip to Tip: 2425.6 mm - Height: 663.8 mm - Landing Gear Base: Length: 803.5 mm Width 577.5 mm

Flight modes	- GPS LOITER - ALTITUDE HOLD - FULLY AUTONOMOUS
Radio Frequencies	2.4 GHz (ISM) 902-928 MHz
System Architecture	Open Source
GPS	Dual RTK GNSS
Payload Mounting	Dampened Modular Quik-Release
Weather Rating	Light Rain
Flight Safety Systems	- Radio Connectivity Monitoring - Battery Voltage & Amperage Monitoring
Dimensions (folded)	- Height: 273.1 mm - Length: 704.9 mm - Width: 704.9 mm

POWERPLANT AND BATTERIES

Battery Type	12S1P Smart Lipo (2xBatteries)
Peak Battery Voltage	50.4 V
Nominal Battery Voltage	44.4 V
Auxiliary Power	5.3 V, 12 V, 24 V, 48 V Power Ports

Battery Capacity	16.000 mAh
Battery Life Cycle	250 Flights
Battery Connector	AS150U-F (Anti-Spark)
Safety Features	Battery Voltage & Amperage Monitoring



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OPERATION AND ENVIRONMENTAL



Operation Temp	-20°C to 49°C -4°F to 120°F
Max Operational Wind Speed	25 mph 11 m/s

Service Ceiling AMSL	12,000 ft 3658 m (Payload Dependant)
Service Ceiling AGL	400 ft 122 m (FAA Limited)

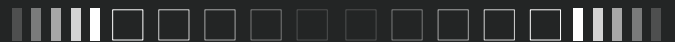
MOTORS AND PROPELLERS



# Motors	8
Equivalent KV	KV100 Motors
Optimal RPM	2200 - 2800 RPM

Motor Configuration	X8 OCTA QUAD
Propeller Material	Carbon Fiber with Aluminum Hub
Propeller Dimensions	29.2 in x 9.2 in

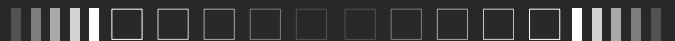
COMMAND AND CONTROL



Harris C-GCS	<ul style="list-style-type: none"> - 19 in Dual HD Display - Hands-on Throttle-and-Stick (HOTAS) - Freq: 902 - 928 MHz - 12 Channel Functionality - NDAA Compliant
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hereLink	<ul style="list-style-type: none"> - Handheld Remote - 5.5 in Display - Freq: 2.4 GHz (ISM) - 32 Channels Functionality - NDAA Compliant
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FLIGHT CONTROLLER



Flight Controller	Cube Orange
Data Transmission Range	12.5 mi 20 km (Ideal Conditions)
Firmware	Custom ArduPilot

Takeoff and Landing	Autonomous or Manual Control
Flight Tracking	ADS-B (Receiver)
Safety Features	<ul style="list-style-type: none"> - Triple Redundant IMU - Redundant Power Supply