

NX30 PLATFORM SPECIFICATIONS

HARDWARE

AIRFRAME DESIGN	Coaxial Unmanned Aerial Vehicle
MATERIALS	Polycarbonates, composites, aluminum
HEIGHT	32.0 inches (812 mm)
CORE DIAMETER	4.2 inches (106 mm)
TIP-TO-TIP SPAN	36 inches (914 mm)

PERFORMANCE

MAX TAKEOFF WEIGHT	30.0 lbs. (13.6 kg)
PAYLOAD	Maximum available payload w/ one battery: 15.3 lbs. (6.9 kg) Maximum available payload w/ dual battery: 8.7 lbs. (3.9 kg)
EMPTY WEIGHT	Core Vehicle (no battery or payload) 8.1 lbs. (3.6 kg)
DRIVE SYSTEM	Direct drive with 2x brushless motors
POWER	12S 44.4 volts Lithium Ion
ENDURANCE	ONE BATTERY: 20 min. w/ 15.3 lbs. payload DUAL BATTERY: 65+ min. w/ no payload 50 min. w/ 7.5 lbs. payload
MAX OBSERVED ALTITUDE	14,600 feet above MSL (5,000m)
MAX SPEED	Manual: >60 mph (100 kph, 27 m/s) Auto (Recommended): 40 mph (65 kph, 18 m/s)
ENVIRONMENTAL	IP56 OPERATING TEMP: -40 to 130F (-40 to 54C) WIND RESISTANCE: CLASS 8 (40mph+)

COMMAND & CONTROL (C2)

AUTOPILOT	MAVLink compatible Commercial specifications standard, Domestic & MIL-spec Other autopilots and encrypted communications standards available
GPS	GPS, GLONASS, BEIDUO + RTK support
GROUND CONTROL STATION	Integrated manual mode 2-stick control, autonomous navigation w/ integrated 1920 x 1080 touchscreen LCD Alternative options include ruggedized Windows PCs, Android, iOS
C2	RFD900x, DoodleLabs, Microhard, Silvus, Persistent Systems + custom applications
AIRBORNE VIDEO INPUTS	Dual HDMI inputs support simultaneous use of two airborne sensors

NX30 OPERATING RANGE

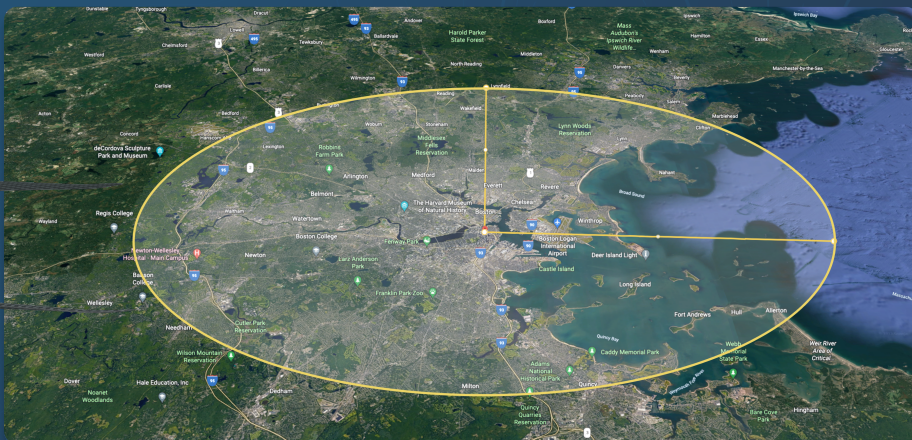
DELIVERY MISSION SCENARIO



MISSION SCENARIO

SERVICE AREA

FLIGHT TIME



SERVICE AREA AROUND BOSTON, MA

Deliver a 5 lb. payload 12 miles away

Abort delivery due to 'unknown' circumstance*

Return 12 miles w/ 5 lb. payload

From Point A to B and back

From Point A to B

12-mile radius | 450 sq miles

24-mile range | 1,800 sq miles

OUTBOUND LEG

18 minutes

DELIVERY

01 minute drop-off simulation

RETURN LEG

18 minutes

TOTAL TIME

37 minutes

BATTERY RESERVE

04 minutes

*(5 lb. payload was retained throughout the mission, representing the most conservative "abort" scenario)

PHOENIX



NEW YORK

