URBAN AERONAUTICS:
LEADING THE FANCRAFT REVOLUTION

Urban Aeronautics' Fancraft family of aircraft represent a true revolution in VTOL technology. UrbanAero's patented, aerodynamic innovations radically transform basic ducted-fan configurations into uniquely stable and maneuverable aircraft that can reach speeds of between 100 to 140 kts and carry significant payloads for up to 5 hours. With their shrouded rotors and small footprint, Fancraft are uniquely suited to urban and obstructed environments. The present 'family' includes the single engined "AirMule" Cargo and CasEvac UAS, "Centaur" its manned variant, and the larger, twin-engined "X-Hawk", a 10 passenger version. All have both civil and military applications. AirMule, UrbanAero's flagship aircraft, is currently undergoing flight testing.

AIRMULE : REVOLUTIONARY CAPABILITIES FOR TODAY'S BATTLEFIELD AND TOMORROW'S CHALLENGES

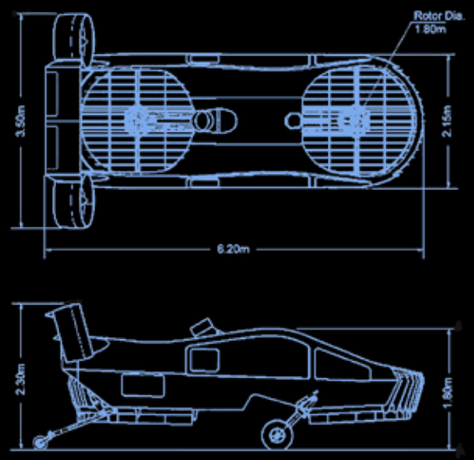
Today's battlefield is increasingly defined by an enemy whose unconventional tactics seriously challenge conventional technologies. Tomorrow's battlefield will undoubtedly be more so. Cities and obstructed or inaccessible environments are the insurgent's battlefield of choice. Supply convoys and medical teams entering these locations are under constant threats unlike any that have been experienced in the past. IEDs and roof-launched RPGs are an ever more lethal force against humvees, trucks and helicopters. AirMule, a tactical Unmanned Aerial System (UAS) can help combatants reclaim an essential edge by enabling precise point to point support and CasEvac solutions in battle conditions that are increasingly averse to conventional rotorcraft access.

AirMule's small visual footprint, low noise and reduced IR signature offer a stealth advantage that greatly enhances its effectiveness and survivability. Unmatched time to target with the unprecedented capability of CasEvac on return offers life saving potential. Simplicity of design without a complex cyclic rotor head means high reliability and low operating cost.

AIRMULE: BEYOND THE BATTLEFIELD

AirMule offers much needed capabilities to emergency responders in the most challenging situations such as earthquakes and floods. The ability to quickly deliver water, food and medical supplies directly to affected populations--no matter how isolated--can save lives. During nuclear, biological or chemical emergencies AirMule offers transformative assessment and response capabilities. Day to day multiple mission capability (electric grids, bridge inspection, agricultural spraying, offshore oil platform support to name a few) makes AirMule a cost effective addition to any commercial helicopter fleet.

AIRMULE UNMANNED AERIAL SYSTEM



SPECIFICATIONS (ARRIEL 2 EQUIPPED AIRMULE 2 UAS):

Weights		
Empty Weight	1,700 lbs	(771 kg)
Max Load (Fuel+Payload)	1,400 lbs	(635 kg)
Fuel Consumption (65 kts)	290 lbs/hr	(132 kg/hr)
(100 kts)	360 lbs/hr	(163 kg/hr)
Max Gross Takeoff Weight	3,100 lbs	(1,400 kg)
Performance		
Engine Power (Turbomeca Arriel 2)	940 SHP	
Max Speed (Dash)	100 kts (180 km/hr)	
Max Altitude	12,000 feet	
Flight Endurance (Depending on useful load)	Up to 5 hrs	
Dimensions		
Fuselage size (feet)	22.3L x 7.1W x 5.9H	
(meters)	6.2L x 2.15W x 1.8H	
Rotor Diameter	5.9 ft (1.8 m)	

Note: Above estimates are preliminary and subject to change

Leading the Fancraft™ Revolution

AirMule: Unprecedented capabilities, extraordinary mission potential

- Vertical mobility in urban environments
- Extremely cost effective
- All weather capability
- Numerous tactical roles
- CH-53, EH-101 and truck transportable
- Unmatched time to target, "on-demand", obstacle free delivery of supplies
- Evacuation of casualties with no risk to ground personnel
- Reduced reliance on vulnerable supply convoys
- Ideal for IED neutralization; minimal, autonomous operational infrastructure
- Greater infantry agility through the reduction of load carrying requirements
- Equivalent off-shore missions from Navy frigates and small vessels, both Civil and Military
- Numerous civil emergency and disaster response applications (Homeland Security, floods, earthquakes, compromised nuclear facilities)

AirMule: State of the Art components and Urban's patented, enabling technologies

- Composite structure
- Fly by Wire
- 100% aerospace grade components
- FCS fully mil-spec qualified, quad-redundant, running on Integrity OS DO178 certifiable
- Designed to meet existing FAA standards (primarily FAR part 27)
- Patented Vane Control System offering an unprecedented six, de-coupled degrees of freedom capability
- Patented adaptable (louvered) ducts enabling speeds in excess of 100 kts
- Patented aerodynamically tailored fuselage generates in excess of 50% of lift in forward flight