



Electric Multi-Rotor Aerial Crane

VA-AC200C

“Aerial Crane” Series

Heavy-lift Transport Drones



Key Features:

- **Eight-Axis Sixteen-Wing Design:** Vertical takeoff and landing, hovering, and movement in any direction
- **Core Power Redundancy Exceeding 35%:** The independently developed high-power motor boasts a power redundancy exceeding 35%, ensuring undiminished power even in mountainous areas with no signal.
- **Smart Fast-Charging Battery:** Fast charging and rechargeable batteries significantly reduce drone energy costs
- **Carbon Fiber Fuselage & Propellers:** The body material offers exceptional stability, is resistant to rust and oxidation, and is suitable for a wide range of operating temperatures. It is both durable and lightweight, and requires minimal energy.



Wing



Axis

Why Choose VA-AC200C?

- **High Return on Investment (ROI):** With thousands of lifts and landings completed, and over 100 tons of power tower materials, fittings, and base materials transported, the system saves on crane handling costs and saved construction time, enabling rapid cost recovery.



Why Choose VA-AC200C?

- **Easy Assembly & Transportation:** Foldable storage saves space, reducing transportation costs, allowing for quick deployment, shortening debugging time, and improving work efficiency.



Folding Axis



Uninstalled Wings



Why Choose VA-AC200C?

- **Core Motor Power Redundancy Exceeding 35%:** The independently developed high-power motor boasts a power redundancy exceeding 35%, ensuring undiminished power even in mountainous areas with no signal.



Smart Batteries & Remote Controls

Why Choose VA-AC200C?

- **Strong Environmental Adaptability:** The aerial crane has successfully completed lifting operations at over ten different altitudes (from sea level to 5500 meters), in different seasons (spring, summer, and autumn), and in different mission scenarios (maximum height difference of 700 meters, maximum horizontal distance of 5km).



Drone Urban Lifting



Drone Fieldwork



High-Altitude Drone Lifting

Solution

- **Logistics Transportation:**
- Used for transporting large, heavy equipment and cross-regional transportation, connecting warehousing centers and distribution stations.



Solution

- **Agriculture:**Used for transporting agricultural products, it has greatly streamlined the agricultural production process and reduced transportation time.



Solution

- **Emergency & Rescue:**
- Drones are highly maneuverable and can be rapidly deployed, allowing them to reach disaster areas quickly and save valuable time for emergency response efforts. Equipped with high-definition cameras and LiDAR, they can rapidly generate 3D models of the actual environment, carry 40 to 100 kilograms of supplies, and even establish temporary communication networks in areas where power is out, roads are blocked, or internet connectivity is lost. Additionally, they can enhance response efficiency through functions such as public address systems, lighting, and localized fire suppression.



Solution

- **Inspection & Exploration:**

Accurately survey potential landslide and debris flow sites to provide early warnings; collect imagery of disaster-stricken areas to calculate the affected area and scope of impact.

Rapidly acquire large-scale topographic data and generate high-precision data models to provide a scientific basis for multiple fields.



Case: Electrical Wiring Renovation Project

- In August 2024, during the renovation of the Liangshan 110-kilovolt transmission line, heavy-load drones were deployed to assist in completing the renovation work. These drones operated stably and reliably over a period of 45 days (non-consecutive), effectively supporting the renovation efforts, improving construction efficiency, and reducing the labor requirements and associated safety risks of traditional construction methods.



Case: Transportation Project

- A company undertaking a construction and transportation project in Gya-cha County utilized drones to hoist and transport materials, including steel tower components and sand and gravel, at an altitude of 4,800 meters. Despite the region's complex weather conditions and variable geological terrain, the project team successfully transported a total of 100 tons of cargo. By strictly adhering to the scheduled timeline, they ensured a steady supply of construction materials to the client, preventing any construction delays caused by transportation issues.



Standard with:

- Drone
- Remote Control
- Batteries
- Smart Charger
- Hook rRelease Device+Rope



Remote Control



Batteries



Drone



Smart Charger



Hook rRelease Device + Rope



Important Parameters

Unfolded Dimensions (Operating)	4100*4100*1120mm	Operating Ambient Temperature	-10~45°C (battery insulation)
Folded Dimensions (Transportation)	1980*1980*1780mm	Waterproof Rating	IPX3
Aircraft Structure	Octaxial 16-rotor	Maximum Operating Altitude	2500 meters
Maximum Takeoff Weight	⋈ 405kg	Operating Voltage Range	54V-75.6V
Rated Payload (Sea Level)	200kg	Effective Battery Capacity	16.8 kWh
Empty Weight (Excluding Battery)	⋈ 125kg	Battery Cycle Life	≥1000 cycles (80%)
Maximum Hovering Time (Empty)	50 minutes	Battery Weight	40kg/piece
Regular Operating Time	20 minutes	Charging Operating Temperature	5~68°C
Full Load Range	10 minutes	Discharging Operating Temperature	-20°C~90°C
Maximum Single-Shaft Pull Force	57kgf (sea level)	Ground Station Remote Control Distance	15KM (line of sight)
Navigation and Positioning System	GPS+BDS+GLONASS+GALILEO	Image Transmission	4K HD digital image transmission
Wind Resistance Rating	Level 5 (<10.8m/s)	Battery & Ground Station Protection Rating	IP54
Maximum Climb/Climb Rate	±8m/s	Ground Station Display Screen	7-inch high-brightness screen
Maximum Horizontal Speed	15m/s	Ground Station Range	8 hours

Contact

- **Address:**22nd Floor, Building No.11, Shiyou Road No.1, Yuzhong District, Chongqing, China
- **E-mail:**sales01@vastarrive.com
- **Web:**www.vastarrive.com
- **Tel/Whatsapp:**+86 17708348540