



Electric Multi-Rotor Aerial Crane

VA-AC200D

“Aerial Crane” Series

Heavy-lift Transport Drones



Key Features:

- **Four-Axis Eight-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



Why Choose VA-AC200D?

- **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-AC200D?

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



Folding Axis



Wing

Why Choose VA-AC200D?

- **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-AC200D?

- **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: Transportation Project

- In mountainous area renovation projects, VA-AC200D provides heavy-duty drone rental services to customers. VastArrive's drones operate stably for 45 days (non-continuously), effectively assisting in project construction, improving construction efficiency, and reducing manpower input and safety risks associated with traditional construction methods.



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)	2200*2200*860mm	Operating Ambient Temperature	-10~45°C (Battery insulation)
Maximum Wheelbase	2800mm	Waterproof Rating	IPX3
Folded Dimensions(Transportation)	1100*1100*860mm	Maximum Operating Altitude	2500 meters
Aircraft Structure	Quadcopter (Octoscopter)	Operating Voltage Range	92.4V-117.6V
Maximum Takeoff Weight	≥ 320kg	Effective Battery Capacity	12 kWh/set (Quad-battery mode)
Rated Payload(Sea Level)	200kg (Dual-battery mode) 150kg (Quad-battery mode)	Battery Cycle Life	≥650 cycles (80%)
Empty Weight(Excluding Battery)	≥ 90kg	Battery Weight	20kg/piece
Maximum Hovering Time(Empty)	25 minutes	Charging Operating Temperature	5~68°C
Regular Operating Time	12 minutes	Discharging Operating Temperature	-20°C~90°C
Maximum Single-Shaft Pull Force	80kgf (Sea level)	Battery & Ground Station Protection Rating	IP54
Navigation and Positioning System	GPS+BDS+GLONASS+GALILEO	Ground Station Remote Control Distance	15KM (Line of sight)
Wind Resistance Rating	Level 5 (<10.8m/s)	Image Transmission	4K High-definition digital image transmission
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 of operation



Contact

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