

RAPTOR
DYNAMIC



VECTOR AGR

HD580

Agricultural Drone

38,000 mAh
BATTERY CAPACITY

12,000 W
SMART CHARGER

18.5 gal
SPRAY TANK

50-70 ac/hr
at 2 gpa
COVERAGE

Up
to **40** ft
MAX SWATH

40 mph
MAX SPEED

26.41 gal
SPREAD TANK
VOL

10.56 gal
MAX FLOW

CONTACT US

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FULL-SCALE UPGRADE



Power System

62-inch carbon fiber paddles: high-strength and resistant to deformation.

Vehicle-grade flat-wire motor with stable temperature regulation and high power output efficiency.

High-power ESC with 350A through-current capability, ensuring a faster response to control signals.



Energy System

38,000 mAh smart battery with a grill design, featuring a larger surface area for excellent temperature control.

During flight, the front battery dissipates heat through real-time airflow.

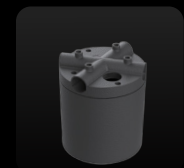
The VoltSmart 4.6 smart charger has a built-in high-speed fan to dissipate heat instantly.



Airpilot 3.5 Multifunction Remote Control

6-inch high-brightness screen with customizable buttons, built-in batteries, and two expandable external batteries, providing up to 8 hours of use.

Brand-new digital transmission module for stable 2km image transmission. If the signal is poor, it will automatically switch to 4G mode to ensure safe and smooth operation.



Sensing System

FPV: Virtual gimbal with a 120° ultra-wide-angle lens. Select the corresponding viewing angle on demand for clear and stable image transmission. With dual 75W high-brightness searchlights, the field of view remains clear at night.

Multi-radar matrix builds 3D omnidirectional sensing. The maximum sensing distance reaches 70 meters, providing high performance in obstacle avoidance and terrain following.



Avionics5.0 System

Avionics control: Dual IMU, Dual GNSS, Dual barometer, and other multi-dimensional redundant combinations.

Multi-module integration with an IP67 protection level.



Software Function

Autonomous operation with full functionality: Supports intelligent "one-key sweep," one-sided spraying, intelligent continuous operation, spray-empty prediction, multi-plot operation, circular operation, prescription maps, and other functions to improve the accuracy of detailed operations.

OPTIONAL EQUIPMENT



HD580 Smart Battery



HD580 Smart Charge



4 Nozzles Kit



Spread Tank

PARAMETERS

Arm unfolded size	130.12 × 140.83 × 33.46 in	Max flow	2 nozzles 7.93 gal/min; 4 nozzles 10.57 gal/min
Arm folded size	50.00 × 34.65 × 34.65 in	Spread tank	26 gal
Maximum takeoff weight	Spray 308.64 lbs / spread 330.60 lbs	Max load	176 lbs
Tank capacity	18.5 gal	Feeding method	Auger
Maximum spray width	39.4 ft (Altitude: 11.5 ft ± 1.6 ft, Speed: 16.4 ft/s)	Particle diameter supported	0.5–10 mm dry solid particles
Atomization size	Centrifugal nozzle 50~500 micron	Spread width	4~10m
Pump type	Magnetic impeller pump ×2	Max feeding quantity	661.38 lbs/min

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