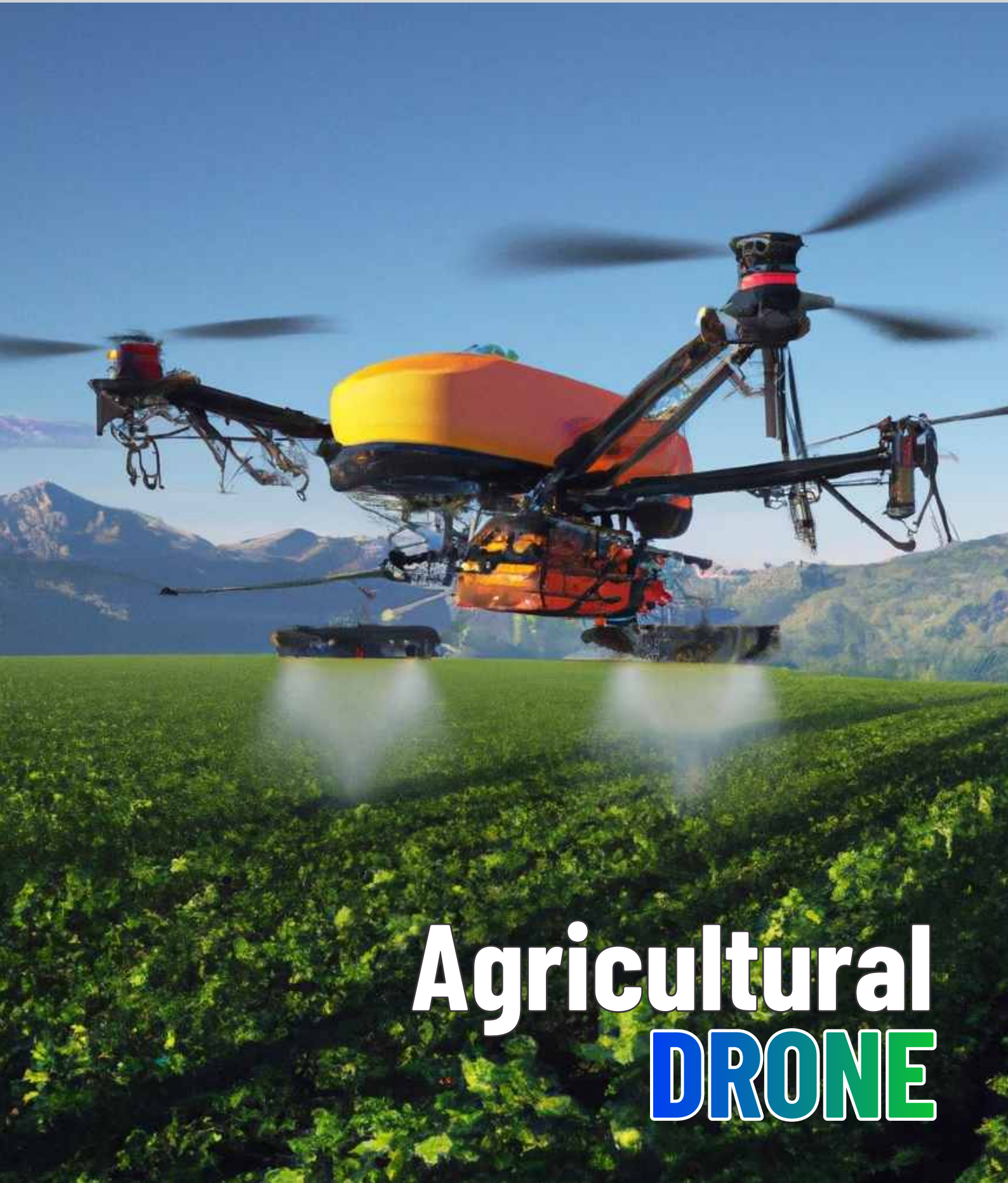
VIVANTA DRONE

www.vivantadrones.com



Agricultural DRONE

VG P100 Agricultural Drone

It's more than a larger scale

VG P100 Agricultural Drone is crafted in structure that can separate the flying platform and task systems, integrating efficient spreading and precision spraying modules. This powerful and reliable drone is the flagship to open the new era of smart agriculture.

Efficient Spreading

280 kg per charge of a battery pack [1]

Precision Spraying

Centifulgally atomized droplet size: 60-400 μm
Flow rate (single pump): 0.3-6 L/min (adjustable)

Safe and Reliable

Dynamic radar, intelligent obstacle avoidance

Fully Autonomous Flight

One tap to operate on app, RTK centimeter-level navigation

Detachable Design

Fast transform, easy to carry

Separable Design, Easier Transportation

The drone can separate its flying platform from task systems, to reduce

handling weight for easier functional switch, transportation and maintenance.

VG RevoSpray 2

Mega-Flow Spraying, Smooth and Precision to Every Droplet

Combine new peristaltic pumps and nozzie shutoff value wath mature centrfugal atomisation technology, bringing an evclution of both flow rate and efficiency, Make precision spraying go a step further.

New Generation Peristaltic Pump

Max. flow rate: 12 L/min

Intelligent Centrifugal Atomisation

Atomised droplet size: 60-400 μm

Efficient Plant Protection

Max. spraying width: 10 m ²

Nozzle Shutoff Valve

No leakage during turning and transport

Quick-release Spraying Bar

Easy to detach, install, transport and maintain

40 L Smart Liquid Tank

Real-time liquid level detection

VIVANTA DRONE

VG RevoCast 2

Spread with Precision and High Efficiency

Adopt a brand new design for spreading disc and screw feeder. Reshape the spread methodology of agricultural drones to greatly enhance efficiency and accuracy.

Vertical Centrifugal Spreading Disc

Strong wind-resistant capacity, precision spreading

Smart Screw Feeder

Change screw feeder according to the size of granules, providing precision and smooth spreading

60 L Granule Container

Sensor detects the remaining granules to avoid misses and spinning with empty granule container

Fast Spreading While Flying

Flight speed is up to 13.8 m/s. A battery pack would suffice to spread 280 kg fertilizer [3]

Precisely Adjustable Spreading Width

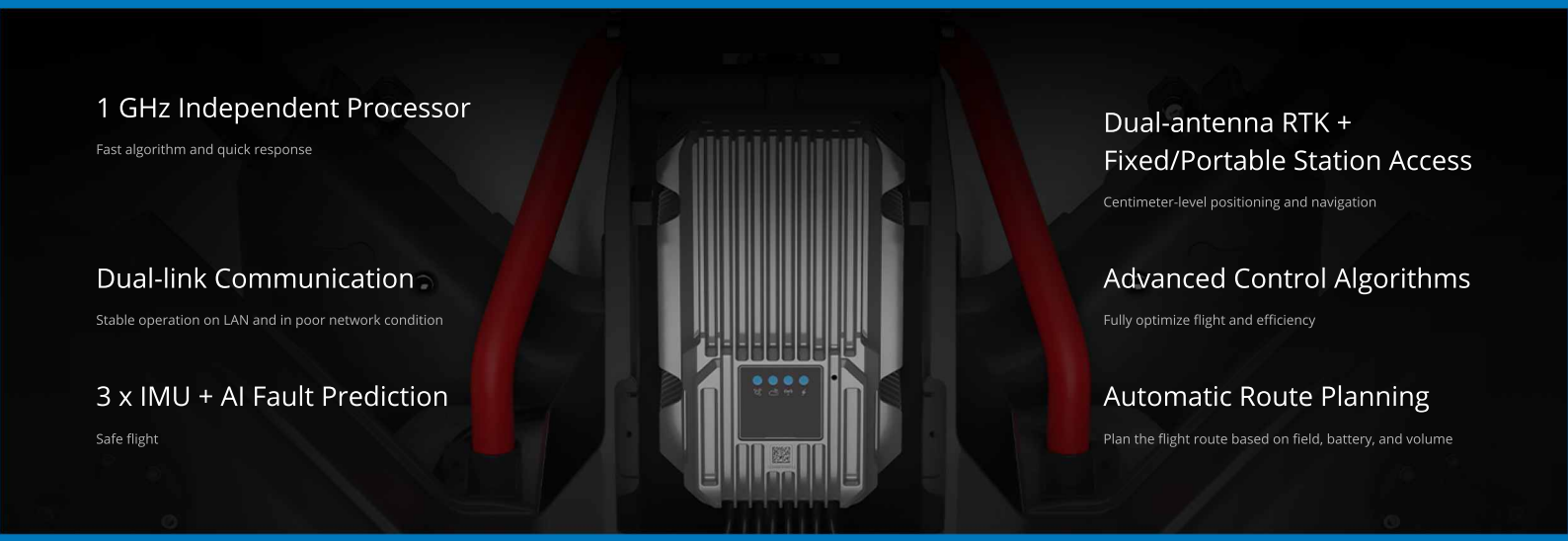
Easily adjust spreading width through flight height

Quick-release, Water-washable

The screw feeder can be quickly detached, and is easy to clean

A Smart Core Powered by AI

Pro Intelligent Control System combines the mighty AI algorithm and high-performance powertrain. Integrated with flexible task systems, this upgraded control module can easily realise fully autonomous precision spraying and broadcast operations. A smart companion for digital agricultural production.



1 GHz Independent Processor

Fast algorithm and quick response

Dual-antenna RTK + Fixed/Portable Station Access

Centimeter-level positioning and navigation

Dual-link Communication

Stable operation on LAN and in poor network condition

Advanced Control Algorithms

Fully optimize flight and efficiency

3 x IMU + AI Fault Prediction

Safe flight

Automatic Route Planning

Plan the flight route based on field, battery, and volume

Adaptable to Most Terrains, Flexibly Avoid Obstacle

Dynamic radar combined with terrain-adaptive module, sensing incoming obstacles and the surrounding environment during flight. Detect obstacles position, distance, direction and speed within 40 meters ahead and above to achieve prediction and bypassing. Protect safe flight from all dimensions.

Dynamic Radar

Quickly detect obstacles within 40 m ahead and above [4]

Terrain Radar Module

Terrain radar and optical flow provide precision detection of downward terrain

VIVANTA DRONE

Pilot Sight Livestream Field Condition Clearly Displayed, More Protection on Flight Safety

Report real-time operation images for users to learn flight status and crop conditions at once. Precision and safe drones operation under complicated surrounding environment.

Surging Power Comes for Upgraded Load and High-Intensity Operation

Brand New Motor

Greatly improve power output

47 inches Efficient Propellers

Durable and lightweight

Integral FOC ESCs

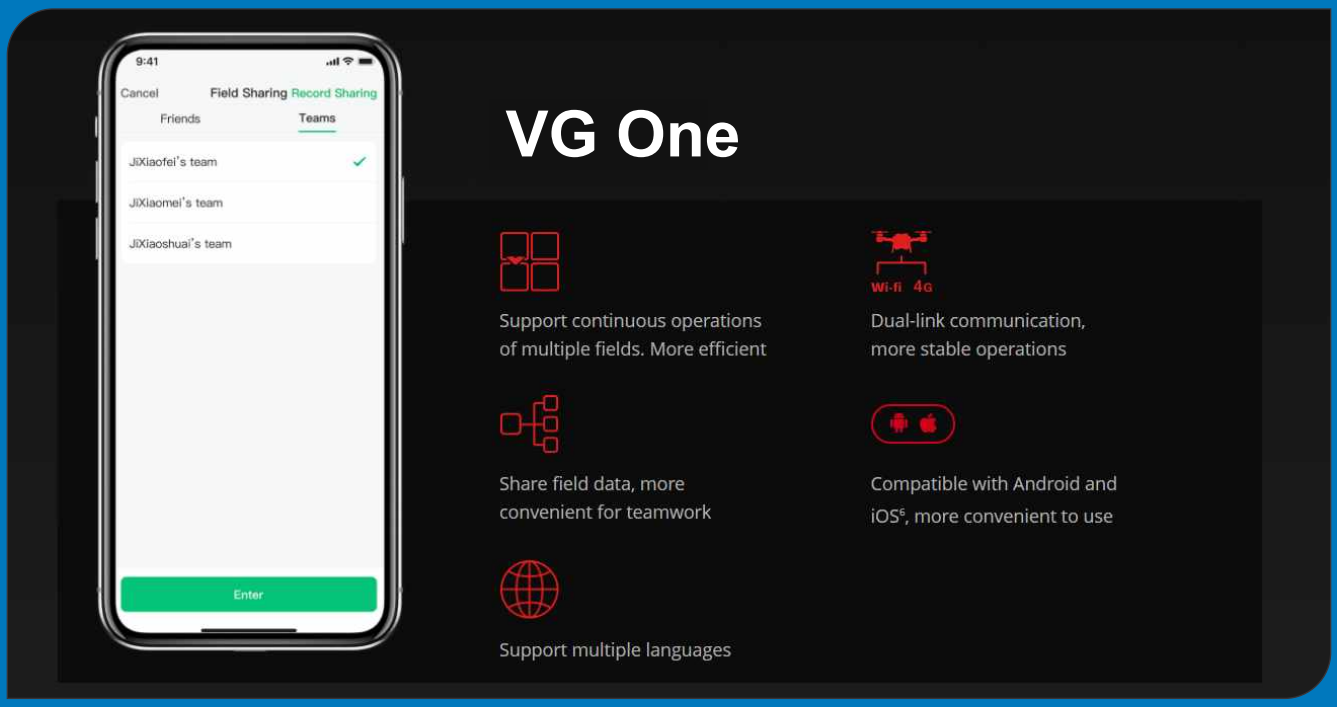
Accurately adjust power to reduce power consumption

Battery Power Stronger, Smarter, and Safer

The all-new B13960S Smart Battery possesses bigger electric power and super charge capability.

Two Ways of Interactions, Take Control in Various Conditions

Accessible via VG One App for fully autonomous and precise farmwork, also available for manual control with Handheld Control Stick.



VAB RTK PORTABLE BASE STATION

The RTK base station provides real-time centimeter-level positioning to agricultural drones, robots, autopilot consoles during farm operations. Stay connected to various smart agricultural equipment, the RTK station supports every mission with reliable data, offers a comprehensive solution for precision tasks.

Provide Centimeter-Level Positioning to Devices

Provide differential data for mobile devices via radio in 2-3 km radius coverage, high stability and short delay in signal transmission

Connect with Ease for Simple Operation

Support mutiplied XAG products including agricultural drone, remote sensing drone, unmanned ground robot and VAG AutoPilot Console

IP65 Rating Protection

Waterproof & dust-resistant, ready to effectively operate under various harsh conditions

Drone Operation Without Internet Access

Take flight as you wish under internet denied circumstance*.

VAG RC Networking Mode uses ACS2 Handheld Control Stick or ARC3 Pro Remote Controller to host local Wi-Fi network.

* VAG RC Networking Mode is applicable to ACS2 Handheld Control Stick and ARC3 Pro Remote Controller. Positioning accuracy might be affected while working without internet. Please pay attention to surroundings during drone operation, and take control to avoid accident if positional deviation occurred.

Available Functions when Activated

- Flight route planning
- Support virtual RTK
- Support VAG Portable RTK Base Station
- Review operation report

VAG Local Network Terminal

A Solution Born for Poor Network Connection

VAG Local Network Terminal provides stable communication links for fully autonomous drone operation under 4G network but with poor signal or non 4G network. Bridging signal connection between handheld control terminals, portable RTK base station and VAG agricultural drone, this is the solution that you need to remain steady, safe, and high-accuracy flight. Breaking the limitation on internet infrastructure.

Efficient Network Access

800 M [7] network coverage range, support wireless LAN hotspot access to network connection

Portable RTK Base Station Connection

Connect VAG agricultural drone and RTK base station that enable fully autonomous flight at centimeter-level positioning

Localized Cloud Algorithms

Reduce postback delays for smooth operation

Note : Strictly for internal communication not for public domain.