

XAG

XA.COM



XAG® XMISSION® MULTIFUNCTIONAL UAS

The Key to "Sky City"



XCam® RGB



XCam® MultiSpectrum

XAG® XMission® is an industrial-level multifunctional Unmanned Aerial System (UAS). Sophisticated design and state-of-the-art manufacturing process lay the foundation for a light, portable and powerful drone platform, ready to use right out of the box. The SUPERX®3 PRO RTK flight control system provides XMission® with centimetre-level navigation for fully autonomous flights in various control schemes, and allows third party payloads to meet specific demands of different applications.



Light & Foldable



RTK Precise Positioning



Fully Autonomous Flight



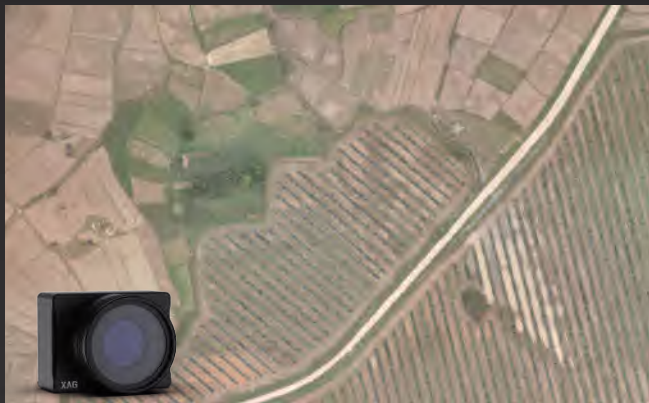
Open SDK

■ A RELIABLE PARTNER

The industrial-grade XAG® SUPERX®3 PRO RTK flight control system, equipped with Dual RTK plus GNSS fusional positioning technology, provides real-time centimetre-level flight accuracy. Its Powerful computing capabilities and reliable safety configurations provide support for autonomous flight, with superior reliability and redundancy. Flight safety is further guaranteed with a terrain-tracing radar effective within 100 metres, and a front obstacle avoidance system intended to scan terrain and detect obstacles.

■ LIGHT, HANDY, RESPONSIVE

Aviation-grade carbon fibre and magnesium aluminium alloy ensure the lightweight and portability of foldable XMission. It can be deployed immediately with a flick to unfold.



■ 2000W XCAM® RGB CAMERA

HD Imagery Brought to Reality

- RTK Positioning, CM-level real-time data synchronisation
- Cloud and local image stitching solutions
- Farmland boundaries auto-recognition directly to the XAG P series UAS for autonomous plant protection operation
- 1-inch 20-megapixel CMOS sensor, 1:500 HD mapping
- Global shutter eliminates distortion or blurring
- Optical autofocus, pre-setting distortion data of lens
- 3D terrain modelling

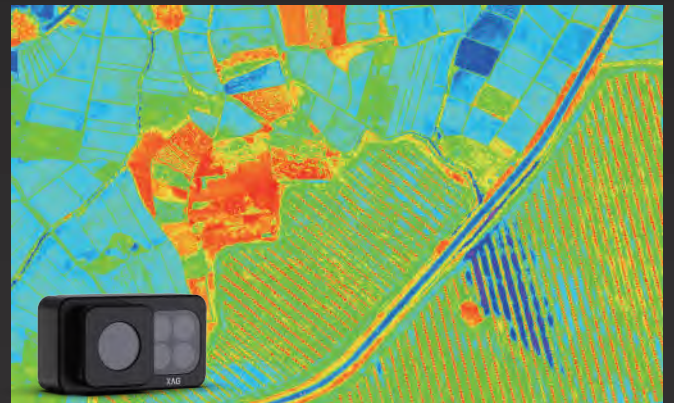
■ FLEXIBLE PLANNING, USER-FRIENDLY

A variety of flight modes facilitate XMission to tackle challenging landscapes: Standard pattern, grid pattern and linear pattern, and to adjust itself to multiple mission scenarios. All operations can be completed by a smartphone and the add-on ACB1 CommBack. Select target fields, adjust flight and imaging parameters directly on the App. Autonomous missions like surveying or inspection can be conducted with ease after a small amount of training.

(*More flexible operation console plans: ACS1 ControlStick and ARC1 PRO Smart Remote Controller are available.)

■ CUSTOMISABLE FOR YOUR NEEDS

To cope with more challenges, XAG will allow third party payload and communication protocols on XMission. By doing so, developers can create more possibilities to meet the demands of various industries by utilising the open SDK and development documentation.



■ 2000W XCAM® MULTISPECTRUM CAMERA

Remote Sensing to Facilitate Precise Decision-Making

- 4-spectrum HD crop images and HD RGB images
- On-site agriculture decision making by aligning NDVI map in pixel level
- The farm prescription map generated by XAI can be applied directly to the XAG P series UAS for autonomous plant protection operation

XAG® XMISSION® MULTIFUNCTIONAL UAS

■ Flight Control

Flight Control System:	SUPERX3 Pro RTK
Data Link System:	2.4G / 5.8G HDLS
Positioning System:	Dual RTK + GNSS
Positioning Accuracy:	Horizontal ±10cm Vertical ±10 - 50cm (depends on flight altitude)
Terrain Tracing:	RTK Altitude + MMW Radar
Obstacle Avoidance:	Front Millimeter-wave Radar
Max. Flight Duration:	35min
Max. Flight Speed:	16m/s
Battery Capacity:	136Wh

■ Structure

Weight (incl. battery):	2.2kg
Diagonal Distance:	492mm

■ Payload

XCam® RGB Camera

Sensor:	1-inch 20-megapixel CMOS
---------	--------------------------

XCam® MultiSpectrum Camera

Sensor:	1-inch 20-megapixel CMOS + 550nm/650nm/735nm/850nm MultiSpectrum
Automatic Radiometric Calibration	

CONTACT US

