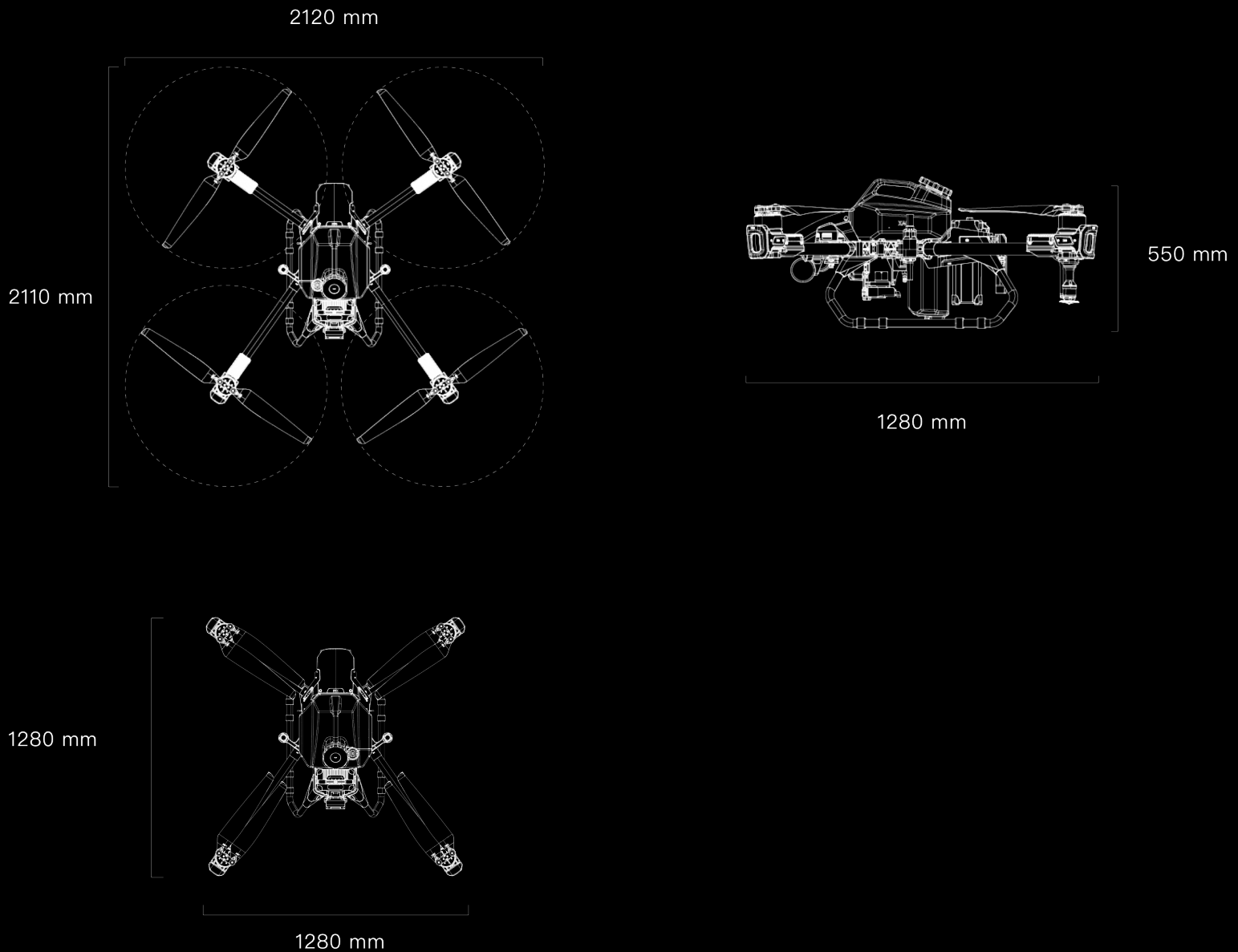


XAG P40 Agricultural Drone Specs

Aerial Platform

Overall Dimensions



1280 × 1280 × 550 mm (when the propellers are folded)

Symmetrical Motor Wheelbase

1560 mm

Arm Material

Aluminum alloy

Weight

29.1 kg (Including battery and empty liquid container)

Waterproof Grade

IP67

Flight Parameters

Maximum Takeoff Weight

49.1 kg

Maximum Thrust-Weight Ratio

1.6

Hovering Precision (Good GNSS Signal)

RTK Enabled: ±10 cm (horizontal), ±10 cm (vertical)

RTK Disabled: ±0.6 m (horizontal), ±0.3 m (vertical)

(radar function enabled: ±0.1 m)

Power Battery

B13960S smart battery is applicable

Maximum Operating Flight Speed

10 m/s

Hovering Duration

15 min (with no-load @20,000 mAh & takeoff weight:

29.1 kg)

6.5 min (with full-load @20,000 mAh & takeoff weight:

49.1 kg)

* Tested in an environment near sea level with a wind speed of less than 3 m/s. For reference only

Rated Takeoff Weight

49.1 kg (Spraying)

49.1 kg (Spreading)

Load Ratio

0.4

Continuous High Precision Navigation Time without Signal

≤ 600 s

Recommended Operating Temperature

-10°C to 40°C

Maximum Flight Altitude

4,000 m

* Maximum load needs to be reduced by 12% for each additional 1,000 m in altitude

RevoSpray™ Spraying System

Smart Liquid Tank

Volume

20 L

Sensor

Liquid Level Sensor

Nozzle

Number of Nozzles

2

Spray Width

5~10 m (The spray swath value is a tested value for various operation height and windspeed, only for reference)

Rotating Speed of Spray Tray

1000~16000 rpm/min

Atomizing Size

60~400 μm (Depending on the actual operating environment, spray flow, and other factors)

Peristaltic Pump

Quantity

2

Maximum System Flow Rate

10 L/min

Voltage

50 V

Maximum Flow Rate (Single Pump)

5 L/min

RevoCast™ Spreading System

Capacity

25 L

Weight

5.5 kg

Waterproof Grade

IP65

Applicable Granule Size

1-10 mm (Dry and solid granule)

Operating Temperature

0~40°C

Storage Temperature

0~40°C

Spread Width

4-10 m (Subject to operating altitude, seed types, dosage and rotational speed of spreading discs)

XAG RealTerra™

Image Sensor

1/2.3inch 12M CMOS Sensor

Lens

FOV 112° 2.7mm/16.8mm (35mm Equivalent)

Mechanical Shutter

1/200-1/2000 s

Image Format

JPG

Power

10 W

Optimum Operating Temperature

10-40°C

PSL Camera

Dimensions

50 × 36.7 × 29 mm

Video Resolution

720P/1080P

Frame Rate

30 fps

Image Sensor

1/2.95inch 2M CMOS Sensor

Video Coding Format

H.264

Focal Length

2.75 mm

Obstacle Sensing & Avoidance System

Dynamic Radar

Model

RD2436

Power

6 W

Sensing Mode

Millimetre-wave Imaging, MTMR

Sensing Parameters

Obstacle's Position, Distance, Direction of Motion, Relative Velocity

Sensing Range

1.5~40 m

Field of View (FOV)

Horizontal $\pm 40^\circ$; Vertical $\pm 45^\circ$

Voltage

24~60 V

Operating Frequency

24 GHz

Relative Height of Safe Obstacle Avoidance

≥ 1.5 m

Distance of Safe Obstacle Avoidance

2.5 m (Distance between the propeller tip and obstacle after the UAV brakes and hovers stably)

Relative Speed of Safe Obstacle Avoidance

≤ 8 m/s

Terrain Radar

Model

TR24S100

Power

1.5 W

Sensing Mode

Millimetre-wave

Height Measurement Range

0.5 m~100 m

Voltage

5.8 V

Operating Frequency

24 GHz

Fixed Height Range

1 m-30 m

Maximum Gradient

45° (at flight speed of ≤ 2 m/s)

Propulsion System

Motor

Model

A25

KV Value

85 rpm/V

Rated Power (Single Motor)

1500 W

Dimension (Stator)

80 × 25 mm

Maximum Tension (Single Motor)

20 kg

Electronic Speed Controller

Model

VC13180

Maximum Continuous Operating Current

180 A

Maximum Operating Voltage

56.6 V (13S Lipo)

Foldable Propeller

Model

P40128

Single Blade Weight

162 g

Diameter x Screw Pitch

40 × 12.8 inch

Gross Weight

440 g

Communication & Control System

Smart ControlStick

Model

ACS2(B)

Operating Frequency

2.4 Ghz

Max Signal Range (No Interference / Obstruction)

1km

Ambient Operating Temperature

-20~60°C

Compatible Device

XAG V40 Agricultural UAV

XAG P40 Agricultural UAV

Power Consumption

4 W (without RTK Module), 8-9 W (with RTK Module)

Ambient Temperature for Charging

5~45°C

Power System

Smart SuperCharge Battery

Model

B13960S

Rated Capacity

20 Ah (962 Wh)

Fast Charge

56.55 V/50 A/2800 W

Ambient Temperature for Charging

10~45°C

Type

13S Lithium Polymer Battery

Rated Output

48.1 V/120 A/5500 W

SuperCharge

56.55 V/80 A/4500 W

Super Charger

Model

CM12500P

Charge Input

AC 90-165V~50/60Hz 23A (Max)

AC 180-260V~50/60Hz 23A (Max)

Operating Temperature

-10~45°C

Nominal Power

2500 W

Charge Output

DC 50-60V/25A(Max)/1250W (AC 90-165V~50/60Hz)

DC 50-60V/50A (Max)/2500W (AC
180-260V~50/60Hz)

Auto Super Charge Station

Model

GC4000+

Number of Cylinders

One

Startup

Electrical starting

Tank Capacity

15 L

Ignition

Spark Ignition

No-load Speed

2600 rpm

Rated Charging Power

3.4 KW

Service Life

>1000 hours

Pollutant Emission

GB Stage II

Dimensions

482 × 417 × 475 mm

Net Weight

31.5 kg

Compression Ratio

8.5:1

Air Intake

Natural Respiration

Fuel Consumption

≤0.6L/KW.h(25 °C,0 altitude,92# unleaded gasoline under national standards @charging power of 3.4KW)

Noise

≤88db(A)@1M

Max Output

5.1 KW

Total Displacement

223CC