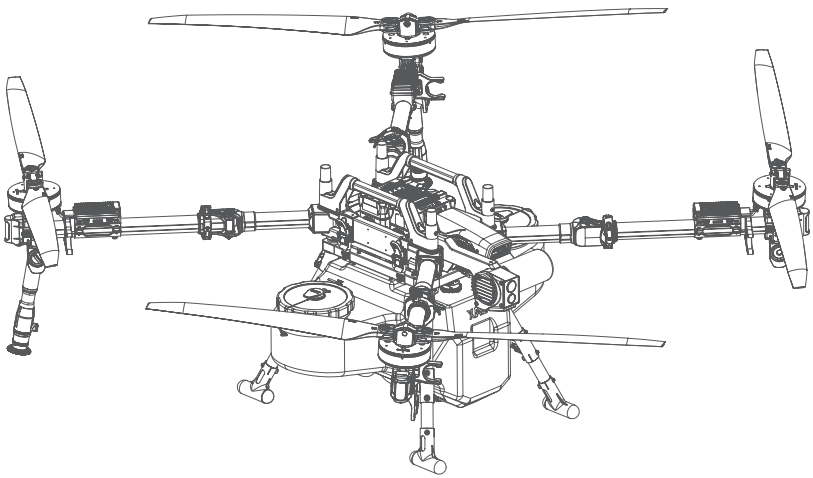
XAG P150

Type: 3WWDZ-60AH

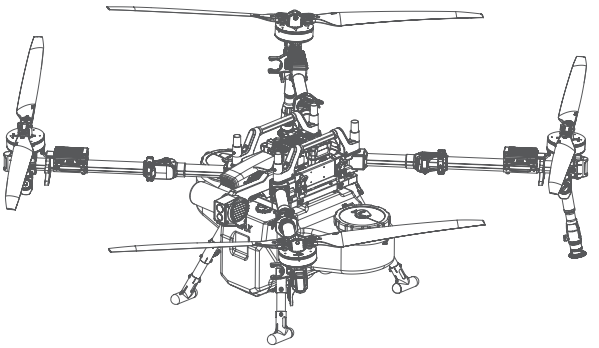
Technical Specifications

Version AU V1.1 EN



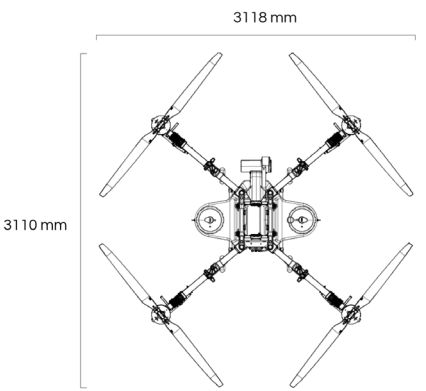
XAG AUSTRALIA

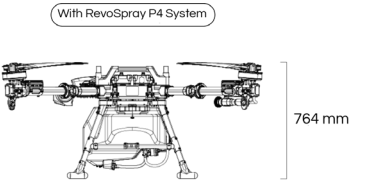
Technical Specifications

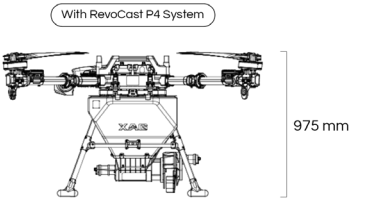


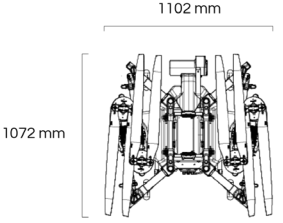
P150 Agricultural RPA

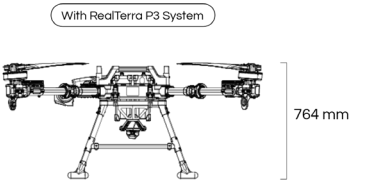
Model	3WWDZ-60AH
Flight Control System	SuperX5 Pro (Cloud RTK)
IP Rating	IPX6K
Arm Material	Aluminium alloy
Diagonal Wheelbase	2203mm











Propulsion System

Motors	
Model	A55
Stator Dimension	145mm x 26mm
Max Tension	55KG / Motor
KV	70RPM / V
Power	4700W / Motor
ESCs	
Model	XESC-F360
Max. Continuous Working Current (30s)	120A
Max. Output Current	360A
Foldable Propellers	
Model	Carbon fibre composite
Diameter x Pitch	55 x 15 inch
Diameter	1530mm

Flight Parameters

Empty Weight (No Container or Battery)	30.00 Kg
Empty Weight (Empty Container + Battery)	54.00 Kg (With RevoSpray P4) 58.00 Kg (With RevoCast P4)
Max Take-off Weight (Full Container + Battery)	125.00 Kg (With RevoSpray P4) 149.00 Kg (With RevoCast P4)
Hovering Time [1]	19.23min (Take-off weight of 54Kg @20000mAh x 2) 5.0min (Take-off weight of 125Kg @20000mAh x 2)
Max. Operating Speed [2]	18.0m/s (With Good GNSS Signal)
Max. Operating Height	100m
Max. Flight Distance	2,000m
Max Service Ceiling Above Sea Level	2,000m
Max. Wind Resistance	6m/s
Operating Ambient Temperature	0°C to 40°C
Hovering Accuracy Range (With Strong GNSS Signal)	RTK Enabled: ±10cm (Horizontal) ±10cm (Vertical) RTK Disabled: ±0.6m (Horizontal) ±0.3m (Vertical) (Radar Enabled ±0.1m)
Operating Frequency	2.400 GHz - 2.4835 GHz; 5.725GHz - 5.850GHz

Transmission Power (EIRP)	2.400 GHz - 2.4835 GHz ≤33 dBm (FCC) ≤20 dBm (CE/SRRC/MIC) 5.725 GHz - 5.850 GHz ≤33 dBm (FCC) ≤30 dBm (SRRC) ≤14 dBm (CE)
GNSS Frequency	GPS: L1C/A, LC1, L2C, L5 GLONASS: G1, G2 BDS: B1L, B1C Galileo: E1, E5a, E5b
High Precision Navigation (With RETK Delay)	≤600s
2G Operating Frequency	CE: DCS 1800: 1710.2 - 1784.8MHz GSM900: 880.2 - 914.8MHz
2G Max. Transmit Power	Class 1 (30dBm) for DCS1800 Class 4 (33dBm) for EGSM900
3G Operating Frequency	CE: WCDMA Band 1 1922.4 -1977.6MHz WCDMA Band 8 882.4 - 912.6MHz
3G Max. Transmit Power	Class 3 (24dBm) for WCDMA bands
4G Operating Frequency	Band 1: 1922.5 MHz - 1977.5 MHz; Band 3: 1710.7 MHz - 1784.3 MHz; Band 7: 2502.5 MHz - 2567.5 MHz; Band 8: 880.7 MHz - 914.3 MHz; Band 20: 834.5 MHz - 859.5 MHz; Band 28: 704.5 MHz - 746.5 MHz; Band 38: 2572.5 MHz - 2617.5 MHz; Band 40: 2302.5 MHz - 2397.5 MHz;
4G Max. Transmit Power	Class 3 (25dBm) for LTE-TDD bands

FPV Cameras

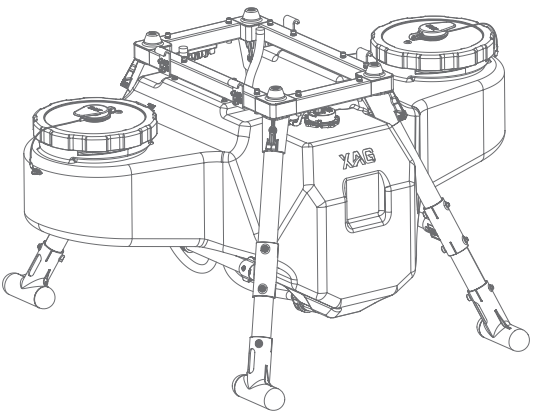
Operating Voltage	24V
Resolutions	1920 x 1080
Frame Rate	30fps
Coding Format	H.264 / H.265
Focal Length	2.7mm
Image Sensor	1/2.8-inch CMOS-RGB Image sensor, Effective Pixels: 2MP

Obstacle Sensor & Avoidance System[3]

4D Imaging Radar		
Model	RD2488	
Operating Frequency	24.05 GHz - 24.25 GHz	
Operating Voltage	24V	
Power Consumption	12W	
Sensing Range	1.5m - 100m	
Sensing Mode	Beamforming, 4D Imaging	
Sensing Parameters	Obstacle's Position, Distance, Direction and Relative Speed	
Field of View (FOV)	Horizontal: Vertical:	±40° +90° to -45°
Safety Limit Distance	2.5m	
Working Conditions	Min. Relative Height: Max. Relative Speed:	≥ 1.5m ≤ 18.0m/s
Obstacle Avoidance Mode	Azimuth, Pitch, Distance, Speed	

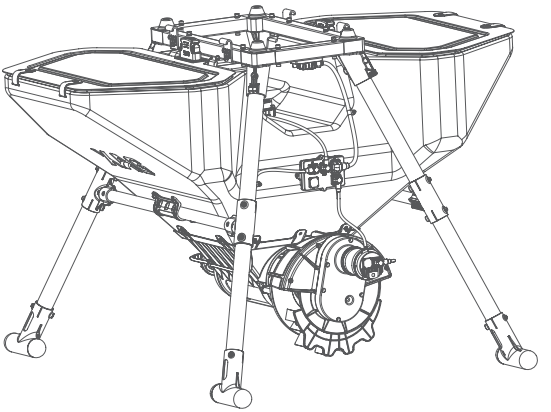
Terrain Radar		
Model	TR24S100_24	
Voltage	5V	
Power	10 dBm	
Sensing Mode	Millimeter-wave	
Operating Frequency	24.05 GHz - 24.25 GHz	
Altitude detection range	0.5 -100m	(Relative Height from Vegetation)
Fixed Height Range	1.0 - 30m	(Relative Height from Vegetation)
Max. Gradient	45°	(@ Flight Speed ≤ 2m/s)

RevoSpray P4 System



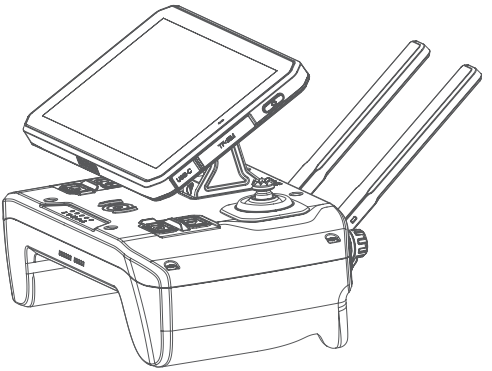
Model	M4TANP50A
Dimensions	737mm x 738mm x 498mm
Net Weight	7.83Kg
IP Rating	IPX6K
Liquid Tank	
Material	Plastic (PE)
Volume	70L
Sensor	Liquid Level Sensor
Centrifugal Atomizing Nozzles	
Nozzle Type	Centrifugal
Quantity	2
Spray Bar Length	1671mm
Rotational speed of Spray disc	1500RPM - 16000RPM
Spray Swath [4]	5m - 10m (Subject to Flight Speed, Height, Dosage, Environment and etc.)
Droplet Size	60μm - 500μm
Flexible Impeller Pump	
Quantity	2
Voltage	50V
Pump Type	Flexile Impeller Pump
Flow Rate [5]	0.5L - 15.0L/min (Single Pump) 1.0L - 30.0L/min (Both Pump)

RevoCast P4 System



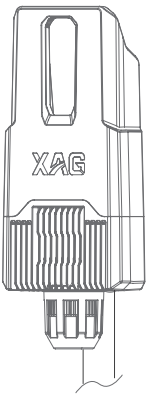
Model	M4RCP115AH
IP Rating	IP65
Dimension	1086mm x 1012mm x 743mm
Net Weight	14.80Kg
Rated Capacity	115L
Rated Load	70Kg
Spread Swath	3m - 8m (Subject to Flight Height, Seed's Weight & Shape, Dosage, Environment and etc.)
Optimal Operating Temperature	0° C to 40° C
Storage Temperature	0° C to 40° C
Applicable granule Size	1 - 10mm (Dry Solid Granule)
Spread Amount Accuracy	±10% (Subject to Granule type and moisture)

SRC4 Remote Controller



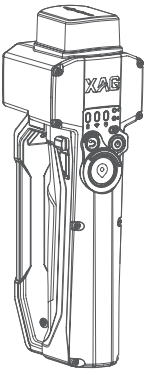
Model	M3SRC4AH	
Dimensions	192mm x 128.5mm x 125mm	
IP Rating	1.0 Kg	
Supported Operating System	Android	
Battery Capacity	20000mAh	
Charging Ambient Temperature	5° C to 40° C	
Operating Ambient Temperature [6]	-10° C to 40° C	
Storage Temperature	-20° C to 55° C -20° C to 45° C -20° C to 25° C	Less than a Month One to three months Three months to one year
Charging Voltage / Current	5V=3A, 9V=3A, 12V=3.5A, 15V=2.0A	
Max Transmission Distance [7] (Unobstructed, free of interference)	2000 Meters	
Operating Frequency	2.400 - 2.4835 GHz; 5.725 - 5.850GHz	
Transmission Power (EIRP)	2.400 GHz - 2.4835 GHz ≤33 dBm (FCC) ≤20 dBm (CE/SRRC/MIC) 5.725 GHz - 5.850 GHz ≤33 dBm (FCC) ≤30 dBm (SRRC) ≤14 dBm (CE)	
Voice Prompt	Yes	
Screen Brightness	700 cd/m2	
Screen Resolution	1440 x 2560	
Screen Size	6 inches	
Screen Frame Rate	50 fps	
Memory Card Type	Class 10	

DL1 Relay



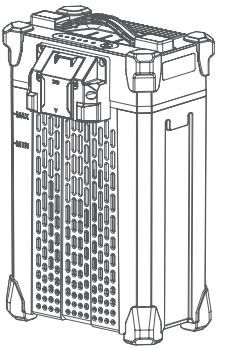
Model	M3DL1A	
Dimensions	331mm x 132mm x 75mm	
Weight	1.6 Kg	
Battery Type	Li-ion	
Battery Capacity	14.700mAh	
IP Rating	IP65	
Power Consumption	7.5W	
Power Connector	USB Type-C	
Charging Voltage / Current	5V=3A, 12V=3.5A, 15V=2.0A	
Operating Ambient Temperature [6]	-20° C to 40° C	
Storage Ambient Temperature	-20° C to 45° C -20° C to 45° C -20° C to 25° C	Less than a Month One to three months Three months to one year
Wi-Fi Operating Frequency	SRRC: FCC/CE: MIC:	2.400 - 2.4835 GHz; 5.725 - 5.829GHz 2.400 - 2.4835 GHz; 5.725 - 5.850GHz 2.400 - 2.4835 GHz
Transmission Power (EIRP)	2.400 GHz - 2.4835 GHz ≤33 dBm (FCC) ≤20 dBm (CE/SRRC/MIC) 5.725 GHz - 5.850 GHz ≤33 dBm (FCC) ≤30 dBm (SRRC) ≤14 dBm (CE)	
Max. Communication Distance (No Interference / Obstruction)	SRRC: FCC: CE/MIC:	2,000m 2,000m 1,000m
Compatibility	XAG 2024 SRC4 XAG 2024 Model Agricultural Drone	

XRTK6 Pro



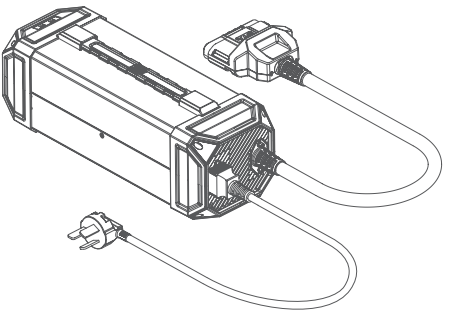
Model	M3RTK6B	
Dimensions	224mm x 66mm x 94mm	
Battery Capacity	4800mAh / 7.38V	
Operating Ambient Temperature [6]	0° C to 45° C	
Storage Ambient Temperature	-20° C to 55° C -20° C to 45° C -20° C to 25° C	Less than a Month One to three months Three months to one year
Charging Voltage / Current	5V=2A, 9V=1.5A, 12V=1.5A	
Max Transmission Distance (Unobstructed, free of interference)	FCC: CE/SRRC/MIC:	1500 Meters 1000 Meters
Operating Frequency	SRRC:	2.4000GHz - 2.4835 GHz
Transmission Power (EIRP)	GPS: GLONASS: BDS: Galileo:	L1C/A, LCP(Y), L2C, L5; L1, L2; B1L, B2L, B3L E1, E5a, E5b
Positioning Accuracy (Good RTK Signal)	Horizontal: Vertical:	<5.0cm + 1ppm (RMS) <7.5cm + 1ppm (RMS)

Smart Battery



Model	M1PPA13970BH
Dimensions	192mm x 139mm x 315mm
Weight [8]	Approx. 6.6 Kg
Battery Type	Lithium Polymer (LiPo) Battery
Rated Capacity	20,000 mAh
Energy	975 Wh
Rated Output	48.75V / 140A
Max Charging Current	100A
Operating Temperature	10° C to 45° C
Charging Temperature	10° C to 40° C
Storage Temperature	10° C to 30° C
IP Rating [9]	IP65
Compatible Aircraft	XAG 2021 Model Agricultural Drone XAG 2022 Model Agricultural Drone XAG 2022 Model Unmanned Ground Vehicle XAG 2023 Model Agricultural Drone XAG 2024 Model Agricultural Drone
Compatible Chargers	XAG M2CM1-3600BH (XAG CM13600) XAG M2CM15300DAH (XAG CM15300D) XAG M2CM210600A (XAG CM210600)

Battery Charger



Model	M2CM1-3600BH
Compatible Battery	XAG B13860S (With Plug A1 Adapter) XAG B13960S XAG B13970 XAG B13970S
Dimensions	329.73mm × 118.44mm × 110.44 mm
Weight	4.6 Kg
Operating Temperature	-20° C to 40° C
Storage Temperature	-20° C to 40° C
Cooling Mode	Forced Air cooling
Input	AC 100-120 Vac 50/60 Hz 15.0 A AC 220-240 Vac 50/60 Hz 15.0 A
Output	DC 56.6 Vdc-21 A (Max)/1200 W (100-120 Vac 50/60 Hz) DC 56.6 Vdc-58 A (Max)/3300 W (220-240 Vac 50/60 Hz)

[1]: The data presented is based on tests conducted under controlled laboratory conditions. Actual performance may vary due to factors such as environmental conditions, operational settings, and the drone's maintenance status.

[2]: Flight speed must adhere to all applicable local laws and regulations.

[3]: The effectiveness of the obstacle sensing and avoidance system is influenced by factors such as the material, shape, size, and position of obstacles. Always maintain visual contact with the drone during operation. Stay vigilant and manually adjust the drone's flight path using the remote controller to avoid obstacles when necessary.

[4]: The recorded spray width of 8 meters was achieved under specific conditions: a flight altitude of 3 ± 0.5 meters, a flight speed of 3 m/s, and a single pump flow rate of 5 L/min. This data is for reference purposes only.

[5]: The actual minimum flow rate may vary based on route spacing, flight speed, environmental conditions, and other operational factors. For precise details, please refer to the XAG One app.

[6]: The remote controller's battery performance may decline when operating in ambient temperatures below -5° C.

[7]: This data is based on outdoor tests conducted in unobstructed, interference-free environments. Actual effective range may vary under different conditions and is provided for reference only.

[8]: Battery weight may vary slightly between different production batches.

[9]: The batteries have been tested under controlled conditions to be splash-resistant and water-resistant. However, this protective performance is not permanent and may diminish over time due to normal wear and usage.