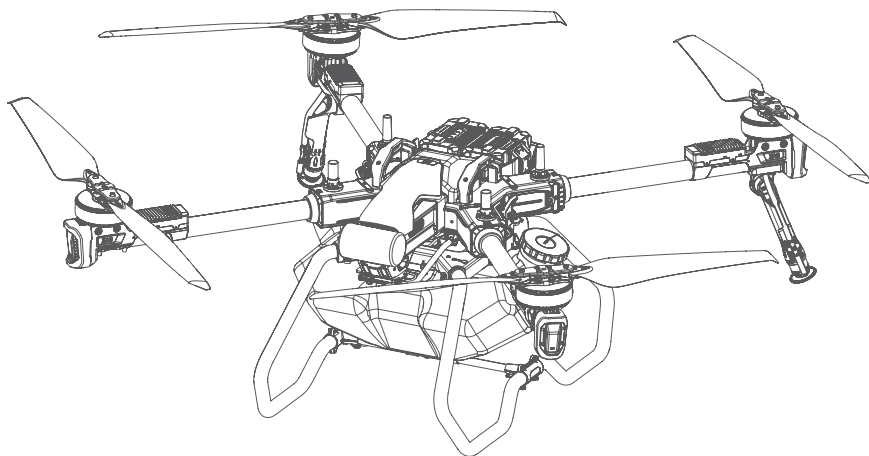


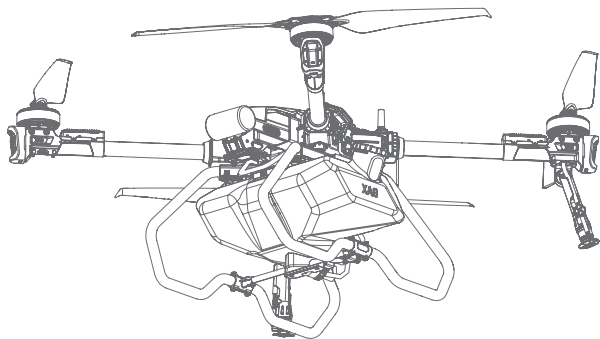
XAG P100 2022

Technical Specifications

Version AU V1.0 **EN**

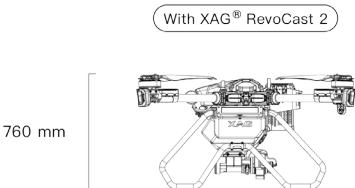
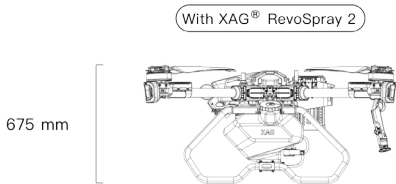
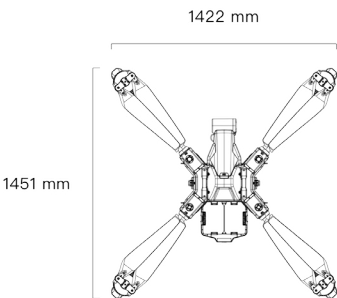
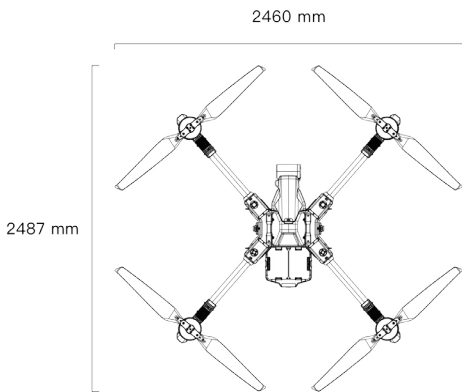


TECHNICAL SPECIFICATIONS



P100 Agricultural RPA

Product Model	3WWDZ-40AH
Flight Control System	SuperX4 Pro
IP Rating	IPX7
Arm Material	Glass Fibre + Carbon Fibre Composite



Flight Parameters

Total Weight (No Module + Battery)	39.60 Kg
Empty Weight (Empty Container + Battery)	48.00 Kg (With RevoSpray Module) 53.00 Kg (With RevoCast Module)
Max Take-off Weight (Full Container + Battery)	88.00 Kg (With RevoSpray Module) 93.00 Kg (With RevoCast Module)
Max. Thrust-Weight Ratio	1.8
Load Ratio	0.45
Operating Frequency	SRRC: 2.4000GHz – 2.4835GHz
Transmission Power (EIRP)	2.4GHz SRRC: 20 dBm
Hovering Accuracy Range (With Strong GNSS Signal)	RTK Enabled: ±10cm (Horizontal) ±10cm (Vertical) RTK Disabled: ±0.6m (Horizontal) ±0.3m (Vertical)
RTK / GNSS Operating Frequency	GPS: L1/L2 GLONASS: L1/L2 BDS: B1/B2 Galileo: E1/E5b
Operating Frequency	2.4GHz / 5.8GHz
Sustainable High Precision Navigation with RTK Delay	≤600s
Hovering Time ^[2]	17 min (Take-Off weight of 48Kg @20000mAh x 2) 7min (Take-Off weight of 88Kg @20000mAh x 2)
Max. Operating Speed	13.8m/s (With Good GNSS Signal)
Max. Flying Height	30m
Max. Flying Distance	2000m
Max Service Ceiling Above Sea Level ^[3]	4000m
Recommended Operating Temperature	-10°C to 40°C

Propulsion System

Motors	
Model	A45
Stator Size	136mm x 27mm
Max Power	4000W / Motor
Max Tension	45KG / Motor
KV Value	78RPM / V
ESCs	
Model	VC13200
Max Working Current (Continuous)	200A
Max Operating Voltage	56.4V
Foldable Propellers	
Model	P4718
Diameter x Pitch	47 x 18 inch
Weight	280g per Blade
Gross Weight	760g

PSL Camera

Model	RD24412
Dimensions	70mm x 40mm x 25mm
Voltage	24V – 60V
Resolutions	720P / 1080P
Frame Rate	30fps
Coding Format	H.264
Focal Length	3.2mm
Image Sensor	1/2.9-inch CMOS Sensor

Obstacle Sensor & Avoidance System

4D Imaging Radar ^[1]		
Model	RD24412	
Operating Frequency	24 GHz	
Voltage	24V – 60V	
Power Consumption	6.5W	
Sensing Range	1.5m ~ 40m	
Sensing Mode	Millimetre-wave Imaging, MIMO	
Sensing Parameters	Obstacle's Position, Distance, Relative Speed	
Field of View (FOV)	Horizontal: ±40° Vertical: -45° to 90°	
Safety Limit Distance	2.5m (Distance between the propeller tip and the obstacles after braking and hovering)	
Working Conditions	Relative Height:	≥1.5m
	Relative Speed:	≤8m/s

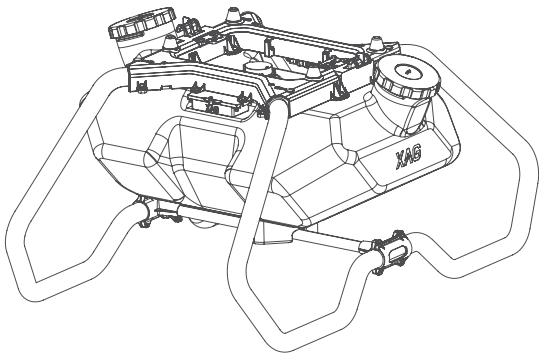
Terrain Sensor		
Model	TR24S100	
Voltage	12V	
Power	1.5W	
Sensing Mode	Millimeter-wave	
Operating Frequency	24GHz	
Altitude detection range	0.5~100m (Relative Height from Vegetation)	
Fixed Height Range	1 ~ 30m (Relative Height from Vegetation)	
Max. Gradient	45°	(Flight Speed ≤ 2m/s)

[1] Effectiveness of the Obstacle radar is dependent on the obstacle's material, location, distance, shape, size, relative velocity, etc.

[2] Hovering time acquired at sea level with wind speeds lower than 3m/s

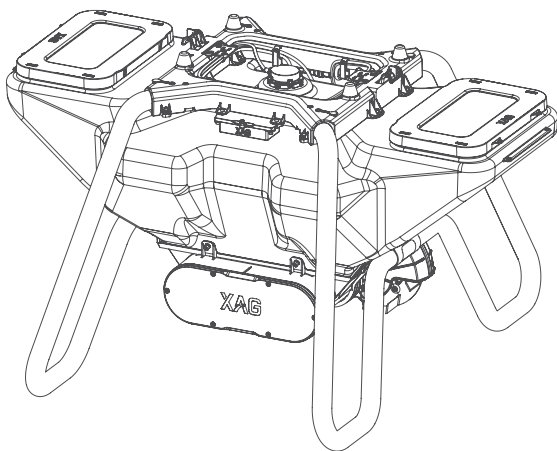
[3] Maximum load needs to be reduced by 12% for each additional 1,000 m in altitude

RevoSpray System



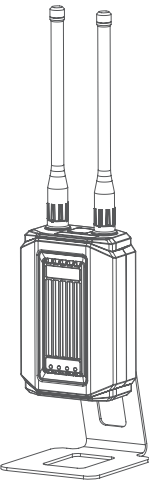
Liquid Tank		
Model	M4TANP40A	
Material	PE	
Volume	40L	
Dimension	947.5mm x 734.5mm x 472 mm	
Sensor	Liquid Level Sensor	
Nozzle		
Nozzle Type	Centrifugal	
Quantity	2	
Rotational speed of Spray disc	1000RPM – 16000RPM	
Spray Swath	5m – 10m	
Droplet Size	60µm – 500µm	
Peristaltic Pump		
Quantity	2	
Voltage	50V	
Max Flow Rate	6L/min	(Single Pump)
	12L/ min	(Both Pump)

RevoCast System



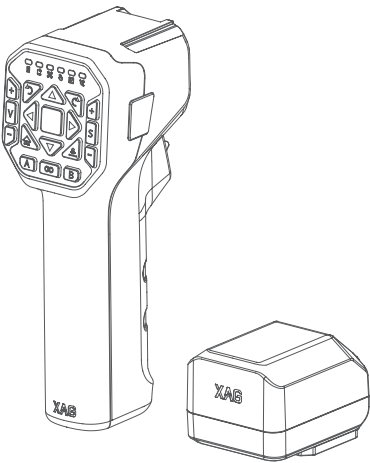
Model	M4RC-60B-P
Dimension	983mm x 873mm x 573mm
Net Weight	13.00Kg
Rated Capacity	60L
Rated Load	40Kg
Optimal Operating Temperature	0° C to 40° C
Storage Temperature	0° C to 40° C
IP Rating	IP65
Applicable granule Size	1-6mm (Dry Solid Granule)

Local Network Terminal



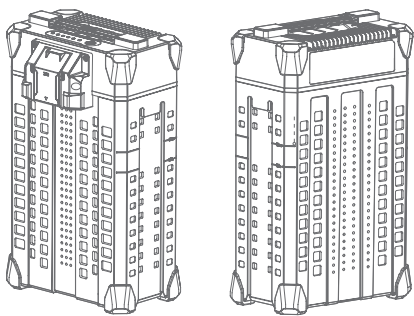
Local Network Terminal	
Model	13LNT-1
Dimensions	93mm x 54mm x 332mm
Weight	Approx. 760g
Power Input	DC 12V/3A
Operating Temperature	0° C to 50° C
IP Rating	IP54
Communication Protocol	Wi-Fi
Operating Frequency	2400 – 2483.5 MHz
Antenna	TNC Port, 2dBi
Warranty Details	12 Months
Power Adapter	
Dimensions	101mm x 86mm x 37mm
Weight	Approx. 335g
Power Input	DC 40 – 54V (B13960S Battery Adaptor)
Power Output	DC 12V/3A
Power	36W
Operating Temperature	0° C to 50° C
IP Rating	IP54

Remote Controller



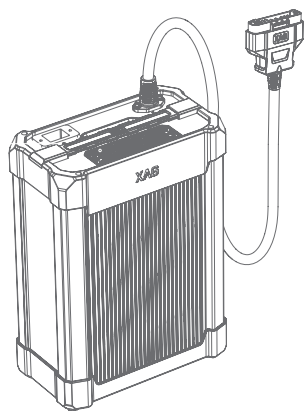
Model	ACS2G	
Dimensions	76mm x 60mm x 177mm	
IP Rating	IP54	
Operating Frequency	2.4GHz / 5.8GHz	
Transmitting Power (EIRP)	2.4GHz	SRRC ≤ 20dBm;
	5.8GHz	SRRC ≤ 26dBm;
Supported Operating System	Android, IOS	
Build-in Battery	5000mAh / 37Wh	
Charging Temperature	0° C to 45° C	
Operating Temperature	-20° C to 55° C	
	-20° C to 20° C	< 1 Month
	-20° C to 45° C	1 – 3 Months
	-20° C to 55° C	3 – 12 Months
Max Transmission Distance (Unobstructed, free of interference)	800 Meters	
Charging Voltage / Current	05V / 2A	
	09V / 1.5A	
	12V / 1.5A	
Mesh Network	Supported	
Voice Broadcast	Supported	
RTK Operating Frequency	GPS:	L1/L2
	GLONASS:	L1/L2
	BDS:	B1/B2
	Galileo:	E1/E5b
Positioning Accuracy (With strong RTK Signal)	Vertical:	< 5.0cm + 1ppm (RMS)
	Horizontal:	< 7.5cm + 1ppm (RMS)
Warranty Details	12 Months	

Smart Battery



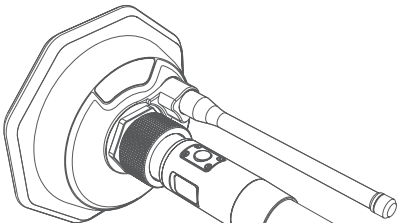
Model	B13960S
Dimensions	189mm x 139mm x 317mm
Weight	Approx. 6.7 kg
Battery Type	Lithium Polymer
Capacity	20000 m/Ah
Energy	962 Wh
Rated Output	48.1V / 120A
Operating Temperature	10° C to 45° C
Charging Temperature	10° C to 40° C
Storage Temperature	10° C to 30° C
IP Rating	IP65
Compatible Aircraft	XAG V40 2021
	XAG P40 2021
	XAG P100 2022
Compatible Chargers	CM12500P
	GC4000+
Charging Voltage	56.55V
Battery Charging Time	
Warranty Details	6 Months

Battery Charger



Model	CM12500P
Compatible Battery	B13960S
	B13860S (With Plug A1 Adapter)
Dimensions	242mm x 137mm x 337mm
Weight	Approx. 9.0 kg
Operating Temperature	-10° C to 45° C
Storage Temperature	-20° C to 55° C
Cooling Mode	Outer Air Cooling
Operating Altitude	≤ 3000m
Input	AC 90-165V ~ 50/60Hz 23A (Max)
	AC 180-260V ~ 50/60Hz 23A (Max)
Output	DC 50-60V/25A (Max) / 1250W (AC 90-165V ~ 50/60Hz)
	DC 50-60V/50A (Max) / 2550W (AC 180-260V ~ 50/60Hz)
Warranty Details	12 Months

GNSS XRTK4 Mobile Station



RTK Positioning Module for Agricultural Use

Model	XRTK4
Dimensions (Diameter x Height)	154mm x 83.6mm (RTK Module) 154mm x 1230mm (RTK Module + Rod)
Weight	1.5 Kg (RTK Module)
Port/Panel	Button × 3, Positioning Indicator × 1 Networking Indicator × 1, Power Indicator × 1
IP Rating	IP65
Operating Temperature	-20° C to 60° C
Storage Temperature	-20° C to 60° C
Relative Humidity	100%, condensation
Warranty Details	12 Months

GNSS Performance & Specifications

Compatible motherboard	K726
GNSS Frequency	
BDS	B1I / B2I / B3I / B1C / B2a
GPS	L1 / L2 / L5
GLONASS	L1, L2, L2C,
Galileo	E1 / E5a / E5b
QZSS	L1 / L2 / L5
RTK Positioning Accuracy	
Horizontal	±10mm+1ppm (RMS)
Vertical	±15mm+1ppm (RMS)
Initialization time	Typical <10 seconds
Initialization Reliability	>99.9%
Data update rate	Maximum 20 Hz (Raw data) Maximum 20 Hz (Positioning data)

Communication Interface	
1 CAN port;	
3 mobile communication modules (2G/3G/4G);	
1 dedicated 2.4GHz/5.8GHz WLAN.	
Communication	
Mobile communication network	
Communication modules	2G/3G/4G
Protocols	GSM, CDMA2000/EVDO, WCDMA, TD-SCDMA, LTE-FDD, LTE-TDD
Dedicated 2.4GHz/5.8GHz WLAN	
Protocol supported	Xlink Communication Protocol
Transmission performance Frequency range	2.400-2.4835GHz/5.735-5.835GHz
Channel spacing	20 MHz
Frequency error/ frequency stability	±10 ppm
Communication mode	Full duplex
Communication protocol	Transparent
Forward error correction	FEC
Data rate	6Mbps
Modulation	OFDM
Emission performance RF output power	Less than 1W Subject to regional SRRC/FCC/CE standards
Reception performance Decoding sensitivity	-90dbm
External Hardware Interface	
Battery terminal × 1	
SIM card slot × 3	
Battery Extension Rod	
Model	B4100
Dimensions (Diameter x Height)	45mm x 1166mm
Capacity	7500mAh 99Wh
Input	12.0 V/1 A (Type-C port)
Output	14.4V/1A
Operating temperature	-10° C to 45° C
Port/Panel	Power Button × 1, Type-C Port × 1, Battery Level/Status Display Panel × 1
Warranty Details	6 Months



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