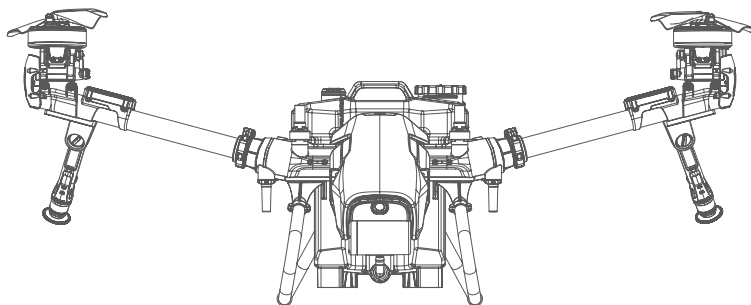


# TECHNICAL SPECIFICATIONS

## V40 Agricultural RPA



### V40 Agricultural RPA

Product Model 3WWDZ-15.2AH

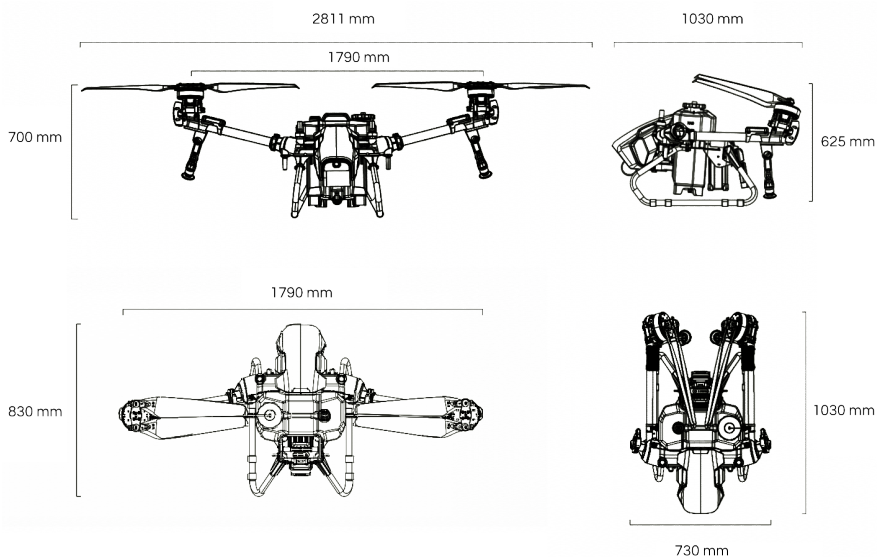
Flight Control System SuperX4

IP Rating IP67

### Airframe

Max Diagonal Wheelbase 1600mm

Arm Material Carbon glass fibre



## Propulsion System

Motors	
Model	A40
Stator Size	136mm x 24mm
Max Power	3000W / Motor
Max Tension	42KG / Motor
KV Value	75RPM / V
ESCs	
Model	VC13180
Max Working Current (Continuous)	180A
Max Operating Voltage	56.6V
Foldable Propellers	
Model	P4718
Diameter x Pitch	47 x 18 inch
Weight	280g per Blade
Gross Weight	760g
Tilt Servo	
Rate Voltage	DC50V
Operating Voltage	DC25V – 55V
Rate Torque	150KG CM@50V
Rated Current	0.5A@50V
No Load Speed	400° / Second

## RevoSpray System

Liquid Tank	
Volume	16L
Sensor	Liquid Level Sensor
Nozzle	
Quantity	2
Rotational speed of spray disc	1000~16000RPM
Atomizing Size	60-400µm
Spray Width	5~10m
Peristaltic Pump	
Quantity	2
Voltage	50V
Maximum System Flow Rate	10L/min

# XAG RealTerra™ System

Image Sensor	1 / 2.3inch 12M CMOS Sensor
Lens	FOV1120 2.7mm / 16.8mm (35 Equivalent)
Mechanical Shuttle	1/200 – 1/2000s
Image Format	JPG
Power	10W
Optimal Operating Temperature	10° C to 40° C

## Obstacle Sensor & Avoidance System

Front Dynamic Radar <sup>(1)</sup>	
Model	RD2426
Operating Frequency	24 GHz
Voltage	24V – 60V
Power Consumption	6W
Sensing Range	1.5m ~ 40m
Sensing Mode	Millimetre-wave Imaging, MIMO
Sensing Parameters	Obstacle's Position, Distance
Field of View (FOV)	Horizontal: ±40° Vertical: 45°
Safety Limit Distance	2.5m (Distance between the propeller tip and the obstacles after braking and hover)
Working Conditions	Relative Height: ≥1.5m Relative Speed: ≤6m/s

Terrain Sensor	
Model	TR24S100
Voltage	5.8V
Power	1.5W
Sensing Mode	Millimeter-wave
Operating Frequency	24GHz
Altitude detection range	0.5~100m
Max. Gradient	45° (Flight Speed ≤ 2m/s)
IP Rating	IP67

## PSL Camera

Dimensions	50mm x 36.7mm x 29mm
Resolutions	720P / 1080P
Frame Rate	30fps
Coding Format	H.264
Focal Length	2.75mm
Image Sensor	1/2.95inch 2M CMOS Sensor

## Flight Parameters

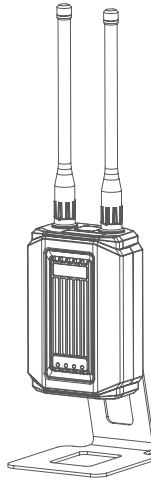
Total Weight (Empty Container)	29.80 Kg
Max Take-off Weight	48.00 Kg
Max. Thrust-Weight Ratio	1.8
Load Ratio	0.4
Hovering Accuracy Range (With Strong GNSS Signal)	RTK Enabled: ±10cm (Horizontal) ±10cm (Vertical) RTK Disabled: ±0.6m (Horizontal) ±0.3m (Vertical) (Radar Enabled±0.1m)
RTK/GNSS Operating Frequency	2.4000GHz – 2.4835GHz
Continuous Navigation without Signal	≤600s
Hovering Time <sup>[2]</sup>	13.5min (Take-Off weight of 29.8kg @20000mAh) 6.8min (Take-Off weight of 45.8kg @20000mAh)
Max. Operating Speed	8m/s (With Good GNSS Signal)
Max. Flying Height	30m
Max. Flying Distance	2000m
Max Service Ceiling Above See Level <sup>[3]</sup>	4000m
Recommended Operating Temperature	-10° C to 40° C
Wind Force Recommended	≤ 3.4-5.4m/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

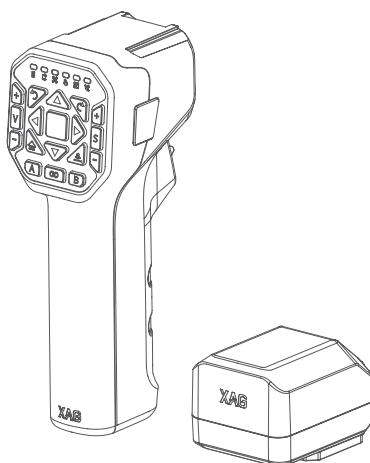
[3] Maximum load needs to be reduced by 12% for each additional 1,000 m in altitude

# Local Network Terminal



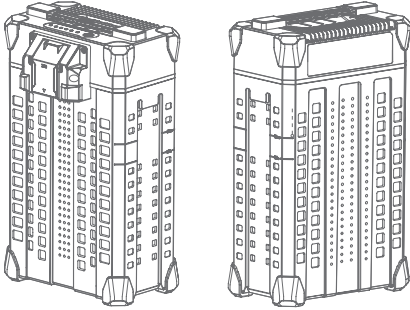
Local Network Terminal	
Model	13LNT-1
Dimensions	93mm x 54mm x 332mm
Weight	Approx. 760g
Power Input	DC 12V/3A
Operating Temperature	0° C to 50° C
IP Rating	IP54
Communication Protocol	Wi-Fi
Operating Frequency	2400 – 2483.5 MHz
Antenna	TNC Port, 2dBi
Warranty Details	12 Months
Power Adapter	
Dimensions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



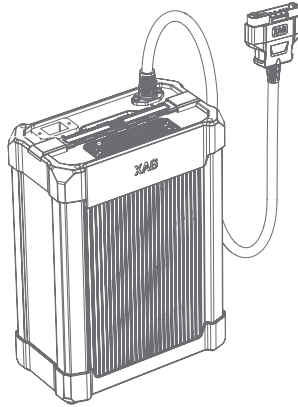
Model	ACS2G	
Dimensions	76mm x 60mm x 177mm	
IP Rating	IP54	
Operating Frequency	2.4GHz / 5.8GHz	
Transmitting Power (EIRP)	2.4GHz	SRRC ≤ 20dBm;
	5.8GHz	SRRC ≤ 26dBm;
Supported Operating System	Android, IOS	
Build-in Battery	5000mAh / 37Wh	
Charging Temperature	0° C to 45° C	
Operating Temperature	-20° C to 55° C	
	-20° C to 20° C	< 1 Month
	-20° C to 45° C	1 – 3 Months
Storage Temperature	-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

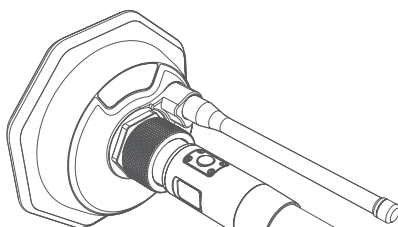
# Battery Charger



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 x 3, Positioning Indicator x 1 Networking Indicator x 1, Power Indicator x 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  $\pm 10$  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  $\times 1$

SIM card slot  $\times 3$

## 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  $-10^{\circ}\text{C}$  to  $45^{\circ}\text{C}$

Port/Panel Power Button  $\times 1$ , Type-C Port  $\times 1$ ,  
Battery Level/Status Display Panel  $\times 1$

Warranty Details 6 Months



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