

Baibars Mechatronics & Aviation

VH-30 Pro

Specifications



Baibars VH-30 Pro				
Hourly work efficiency	40 - 60 acres			
High-precision radar	Obstacle and Ground Defense Radar System			
Remote control planning accuracy	GNSS			
Pipe air exhaust	One button Air Discharge			
Maximum spray flow	2.5L/min (with the ST11001 nozzle)			
	6L/min (with the ST11008 optional nozzle)			
Battery installation method	Removable batteries			
Front-view FPV	٧			
Coordinated turning function	V			
Operation Parameters				
Total weight (without batteries)	26.4 kg			
Maximum take-off weight	76.5 kg (near sea level)			
Hovering precision (with good	±0.6m (horizontal) and ±0.3m (vertical) (with the radar function			
GNSS signal)	enabled: ±0.1m)			
Hovering endurance	20.5min (@22,000 mAh & takeoff weight of 36.5 kg and average win			
	velocity 6-10 m/s			
	10-13min (@29,000 mAh & takeoff weight of 66.5 kg and average			
	wind velocity 6-10 m/s)			
Maximum pitch angle	15°			
Maximum operating flight speed	7 m/s			
Maximum level speed	10 m/s (with good GNSS signal)			
Maximum tolerable wind speed	8 m/s			
Maximum flight altitude	5,000m			
	*Reduce the pesticide load by 17% for each increase of 1,000 meters			
	in altitude.			
Recommended operating ambient	< 85%			
humidity				
Recommended operating ambient	0°C to 45°C			
temperature				
Maximum rotor distance	2,145 mm			
Dimensions	2,863 mm × 2,694 mm × 790 mm (with arms and blades unfolded)			
	2,018 mm × 1,805 mm × 790 mm (with arms unfolded and blades			
	folded)			

Propulsion system - Motor	
Max. Thrust	19.2kg/Axis (46V, Sea Level)
Recommended Takeoff Weight	7-9.5kg/Axis (46V, Sea Level)
Recommended LiPo Battery	12S (LiPo)
Operating Temperature	-20-55°C
Combo Weight	1400g
Waterproof Rating	IPX7
Propulsion system - Propellers	
Diameter × pitch	34.7×11 inch
Weight (with a single blade)	138 g
Power system	ı - ESC
Recommended LiPo Battery	6-14S LiPo
PWM Input Signal Level	3.3V/5V(Compatible)
Throttle Signal Frequency	50-500Hz
Operating Pulse Width	1100-1940us(Fixed or cannot be
	Programmed)
Max. Input Voltage	52.2V
Max. Input Current (Cont.)	120A(w/ Good Heat Dissipation
Max. Peak Current (10s)	150A(w/ Good Heat Dissipation
BEC	No
Mounting Holes for Nozzle	ф28.4mm-2*M3
FPV Came	ra
View angle (FOV)	120°
Resolution	1080×720 10-20 fps
Led light power	6W
Spraying system - Pe	 esticide Tank
	31.5L at full load
Operation tank volume	
Operation tank volume Operating load	31.5 kg at full load

Spraying system - Nozzle	
Nozzle quantity	8
Maximum spray flow	2.5L/min (with the ST11001 nozzle)
	6L/min (with the ST11008 optional
	nozzle)
	(depending on the actual operating
	environment, spray flow, and other
	factors)
Maximum spray flow	ST11001 nozzle : 170 - 290 μm
	ST11008 optional nozzle : 190 - 315 μm
Spraying system	- Pump
Working Voltage	12-14S (DC44-60.9V)
Rated Power	120W
Working Pressure	0.8-1.2Mpa
Working Current	≤2.5A
Data of opening	8L/min
Protection Grade	IP67
Weight	698g
Size	139*95*70mm
Inlet Pipe	Outer diameter 14mm
Outlet Pipe	Outer diameter 14mm
Fixed PWM throttle range	1100-1940us
Obstacle avoidan	ce Radar
Model	BAIBARS TR24DCA100
Operating frequency	FMCW / 24.125 GHz
Operating power consumption	1.2W @ 25°C
Height maintenance and terrain adaptation	Height measurement range: 2-30 m
	Height-maintenance range: 3-10 m
	Maximum slope in mountain mode:20°
Water-resistance rating	IP67
Ground Defense	e Radar
Model	BAIBARS TR24DA100

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Operating frequency	FMCW / 24.125 GHz
Operating power consumption	1.2W @ 25°C
Perceivable distance	1.5-10 m
Water-resistance rating	IP67

Battery		
Model	BAIBARS226S25C /	
	BAIBARS5414S25C	
Weight	~5.24 KG / 6.3 KG	
Discharge rate	25C	
Water-resistance rating	IP54 with board-level potting	
	protection	
Capacity	22.000 mAh / 28.000 mAh	
Voltage	50.2 V / 51.8 V	
Remote Control		
Model	BAIBARS YAVER™	
Operating frequency of the Ocusync Industry Edition	2.4000 - 2.4835 GHz	
Effective signal range at the Ocusync Industry Edition operating	4 KM	
frequency (without interference and blockage)		
	(measured when the operating	
	height of the drone is 2.5 m)	
Wi-Fi protocols	Wi-Fi Direct, Wireless Display, and	
	802.11a/g/n/ac	
Wi-Fi operating frequency	2.4000 - 2.4835 GHz	
Bluetooth protocol	Bluetooth 4.2	
Charcing port	TYPE-C	
Operating ambient temperature	-10°C to 40°C	
Built-in batteries of the remote control		
Built-in batteries	10000 mAh battery	
Power supply current/voltage of the remote control USB-A port	9V / 3A	
Battery life	15 hours	

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Baibars Smart Charging Manager™	
Input Voltage	100-240V
Output Power	1080W (540W x 2)
Discharge Power	100W (50W x 2)
Charge Current	1.0-20.0A x 2
Balance Current	1.2A
Battery Type	LiPo/LiHV
Battery Cell Count	6S-14S
Working Mode	Balance Charge Mode
	Storage Mode
	Charge Mode
Net Weight	4.88kg
Size	272x202x118.6mm