

Specifications

• Product Model	3VWDZ-10A
• Airframe	
Max Diagonal Wheelbase	1480 mm
Dimensions	1958×1833×553 mm (arms and propellers unfolded) 1232×1112×553 mm (arms unfolded and propellers folded) 600×665×580 mm (arms and propellers folded)
• Propulsion System	
Motors	
Max Power	2500 W/rotor
ESCs	
Max Working Current (Continuous)	32 A
Foldable Propellers (R3390)	
Diameter × Pitch	33×90 in
• Spraying System	
Spray Tank	
Volume	Fully loaded: 8 L
Operating Payload	Fully loaded: 8 kg
Nozzles	
Model	XR11001VS (standard), XR110015VS, XR11002VS (optional, purchase separately)
Quantity	4
Max Spray Rate	XR11001VS: 1.8 L/min, XR110015VS: 2.4 L/min, XR11002VS: 3 L/min
Spray Width	3-5.5 m (4 nozzles, at a height of 1.5-3 m above crops)
Droplet Size	XR11001VS: 130-250 μm, XR110015VS: 170-265 μm, XR11002VS: 190-300 μm (subject to operating environment and spray rate)
Flow Meter	
Measurement Range	0.25-20 L/min
Error	<±2%
Measurable Liquid	Conductivity >50 μS/cm (liquids such as tap water or pesticides that contain water)
• Omnidirectional Digital Radar	
Model	RD2424R
Operating Frequency	SRRC/NCC/FCC/MIC/KCC/CE: 24.05-24.25 GHz
Power Consumption	12 W
Transmission Power (EIRP)	SRRC: ≤13 dBm, NCC/MIC/KCC/CE/FCC: ≤20 dBm
Altitude Detection & Terrain Follow ^[1]	Altitude detection range: 1-30 m Stabilization working range: 1.5-15 m Max slope in Mountain mode: 35°
Obstacle Avoidance ^[1]	Obstacle sensing range: 1.5-30 m FOV: Horizontal: 360°, Vertical: ±15° Working conditions: flying higher than 1.5 m over the obstacle at a speed lower than 7 m/s Safety limit distance: 2.5 m (distance between the front of propellers and the obstacle after braking) Obstacle avoidance direction: omnidirectional obstacle avoidance in the horizontal direction
IP Rating	IP67
• Upward Radar	
Model	RD2414U
Operating Frequency	SRRC/NCC/FCC/MIC/KCC/CE: 24.05-24.25 GHz
Power Consumption	4 W
Transmission Power (EIRP)	SRRC: ≤13 dBm, NCC/MIC/KCC/CE/FCC: ≤20 dBm
Obstacle Avoidance ^[1]	Obstacle sensing range: 1.5-15 m FOV: 80° Working conditions: available during takeoff, landing, and ascending when an obstacle is more than 1.5 m above the aircraft. Safety limit distance: 2 m (distance between the highest point of the aircraft and the lowest point of the obstacle after braking) Obstacle avoidance direction: upward
IP Rating	IP67
• FPV Cameras	
FOV	Horizontal: 129°, Vertical: 82°
Resolution	1280×720 15-30fps
FPV Spotlights	FOV: 120°, Max brightness: 13.2 lux at 5 m of direct light
• Flight Parameters	
Operating Frequency	SRRC/NCC/FCC/CE/MIC/KCC: 2.4000-2.4835 GHz SRRC/NCC/FCC/CE: 5.725-5.850 GHz ^[2]
Transmission Power (EIRP)	2.4 GHz SRRC/CE/MIC/KCC: ≤20 dBm, FCC/NCC: ≤31.5 dBm 5.8 GHz FCC/SRRC/NCC: ≤29.5 dBm, CE: ≤14 dBm
Total Weight (exc. battery)	13 kg
Max Takeoff Weight	24.8 kg (at sea level)
Hovering Accuracy Range (with strong GNSS signal)	D-RTK enabled: Horizontal: ±10 cm, Vertical: ±10 cm D-RTK disabled: Horizontal: ±0.6 m, Vertical: ±0.3 m (Radar module enabled: ±0.1 m)
RTK/GNSS Operating Frequency	RTK: GPS L1/L2, GLONASS F1/F2, BeiDou B1/B2, Galileo E1/E5 ^[3] GNSS: GPS L1, GLONASS F1, Galileo E1 ^[3]
Battery	DJI-approved flight battery (BAX501-9500mAh-51.8V, AB3-18000mAh-51.8V, or AB2-17500mAh-51.8V)
Max Power Consumption	3700 W
Hovering Time ^[4]	19 min (takeoff weight of 16.8 kg with an 9500 mAh battery) 9 min (takeoff weight of 24.8 kg with an 9500 mAh battery)
Max Tilt Angle	15°
Max Operating Speed	7 m/s
Max Flying Speed	10 m/s (with strong GNSS signal)
Max Wind Resistance	8 m/s
Max Service Ceiling Above Sea Level	4500 m
Recommended Operating Humidity	<93%
Recommended Operating Temperature	0° to 45° C (32° to 113° F)
• Remote Controller	
Model	RM500-ENT
Screen	5.5-in screen, 1920×1080, 1000 cd/m ² , Android system
RAM	4GB
Built-in Battery	18650 Li-ion (5000 mAh @ 7.2 V)
GNSS	GPS+GLONASS
Power Consumption	18 W
Operating Temperature	0° to 45° C (32° to 113° F)
Charging Environment Temperature	5° to 40° C (41° to 104° F)
Storage Temperature	-30° to 60° C (-22° to 140° F) (stored for no more than one month with a built-in battery power of 40% to 60%)
OcuSync Enterprise	
Operating Frequency	SRRC/NCC/FCC/CE/MIC/KCC: 2.4000-2.4835 GHz SRRC/NCC/FCC/CE: 5.725-5.850 GHz ^[2]
Max Transmission Distance (Unobstructed, free of interference)	FCC/NCC: 7 km, SRRC: 5 km, MIC/KCC/CE: 4 km
Transmission Power (EIRP)	2.4 GHz SRRC/CE/MIC/KCC: ≤20 dBm, FCC/NCC: ≤30.5 dBm 5.8 GHz SRRC: ≤21.5 dBm, FCC/NCC: ≤29.5 dBm, CE: ≤14 dBm
Wi-Fi	
Protocol	Wi-Fi Direct, Wi-Fi Display, 802.11a/g/n/ac Wi-Fi with 2×2 MIMO
Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz ^[2] 5.725-5.850 GHz ^[2]
Transmission Power (EIRP)	2.4 GHz SRRC/CE: 18.5 dBm, NCC/FCC/MIC/KCC: 20.5 dBm 5.2 GHz SRRC/NCC/FCC/CE/MIC: 14 dBm, KCC: 10 dBm 5.8 GHz SRRC/NCC/FCC: 18 dBm, CE/KCC: 12 dBm
Bluetooth	
Protocol	Bluetooth 4.2
Operating Frequency	2.4000-2.4835 GHz
Transmission Power (EIRP)	SRRC/NCC/FCC/CE/MIC/KCC: 6.5 dBm
• Remote Controller Intelligent Battery	
Model	WB37-4920mAh-7.6V
Battery Type	2S LiPo
Capacity	4920 mAh
Voltage	7.6 V
Energy	37.39 Wh
Charging Environment Temperature	5° to 40° C (41° to 104° F)
• Intelligent Battery Charging Hub	
Model	WCH2
Input Voltage	17.3-26.2 V
Output Voltage and Current	8.7 V, 6 A
Operating Temperature	5° to 40° C (41° to 104° F)
• AC Power Adapter	
Model	A14-067N1A
Input Voltage	100-240 V, 50/60 Hz
Output Voltage	17.4 V
Rated Power	57 W

[1] The effective radar range varies depending on the material, position, shape, and other properties of the obstacle.

[2] Local regulations in some countries prohibit the use of the 5.8 and 5.2 GHz frequencies. In some countries, the 5.2 GHz frequency band is only allowed for indoor use.

[3] Support for Galileo will be available at a later date.

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

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