

WISPR Systems SkyScout2+



Software

Flight Controller Firmware	WISPR Flight Firmware (custom ArduPilot build)
Ground Control Software	WISPR Ground Control
Mission Planning Software	WISPR Ground Control and WISPR Cloud

Case

Weight	17.6 lbs.
Weight Fully Loaded	37 lbs.
Exterior Dimensions	32.4" x 18.5" x 10.85" (L x W x D)
Exterior Cubic Volume	3.75 cu. ft.
Add'l Exterior Attachments	Roll Wheels, Handle

Check out the
WISPR Systems
SkyScout 2+
in action!



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Drone

Maximum Sustainable Payload	3.75 lbs.
Max Flight Time to Battery Failsafe	With No Payload -> 35 min. With Payload 2.2 lbs -> 30 minutes (+/- 2 minutes)
Max Wind Rating	50 MPH
Collision Avoidance	Front, backwards, downwards
Terrain Follow Source	GNSS (high altitude) or LiDAR Range Finder (low altitude)
Folded Dimensions	4.5" x 10" x 17"
Fully Assembled Dimensions	14" x 24" x 24"
Diagonal Wheelbase	32.5" (props folded); 49" (props unfolded)
Battery Configuration	2 x WISPR Smart Batteries
Weight	5.5 lbs.
Max Takeoff Weight	12.2 lbs.
Max Speed	50 MPH
Operating Temperature	-4° F to 122° F
Propeller Size	18.2" x 5.9"
Orientation LED Light Covers	Red (Rear), White (Front)
Flight Controller	Cube Orange +
I/O Ports	MicroUSB (Flight Controller access) and USB-C (GPS logs storage)
Additional Mounting	Extra GNSS antenna mount for LIDAR payloads
Frame Type	Quad Copter
Made in America	Yes

GNSS

GNSS Receiver	Ublox ZED-F9P
RTK Compatible?	Yes, NTRIP or other RTCM services
PPK Compatible?	Yes, with WISPR Cloud Subscription
GNSS Band	L1, L2, and E5
GNSS Constellations	GPS+Galileo+Glonass+BeiDou
IMU	Built-in 9-axis IMU

Smart Controller

Smart Controller	WISPR Sky Boss
Display	7" LCD Screen
Roll Wheel Options	Dual Roll Wheels
Video Transmission	1080p 30fps
IP Rating	IP55
Drop Test	Passed MIL-STD-810 Drop Test
Brightness	2000nits
Frequency	2.4Ghz and 5Ghz
Range	2 miles
Antennas	4 x Antenna
Transmission Encryption	AES256

Smart Batteries

Voltage	22.8V
Capacity	4350mAh (99.18 Wh)
Battery Weight	1.4 lbs. (630g +/- 20g)
Charging Time	45 minutes