

# 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!



# WISPR<sup>SM</sup>

Power to the Pro

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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