

WISPR™

# SkyScout2+

GROUP 1 SUAS · POWER TO THE PRO

A U.S.-built, ultra-light multirotor built for rapid deployment, precision data capture, and reliable flight in demanding environments.

TECHNICAL SPECIFICATION

**50 MPH**

MAX WIND RATING

**35 MIN**

MAX FLIGHT TIME

**3 MI**

CONTROL RANGE

**12.2 LB**

MAX TAKEOFF WT

**3.85 LB**

MAX PAYLOAD

## Software

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Flight Controller Firmware | <b>WISPR Flight Firmware</b><br>custom ArduPilot build |
| Ground Control Software    | <b>WISPR Ground Control</b>                            |
| Mission Planning Software  | <b>WISPR Ground Control and WISPR Cloud</b>            |

## GNSS

|                     |                                           |
|---------------------|-------------------------------------------|
| GNSS Receiver       | <b>Ublox ZED-X20P</b>                     |
| RTK Compatible?     | <b>Yes, NTRIP or other RTCM services</b>  |
| PPK Compatible?     | <b>Yes, with WISPR Cloud Subscription</b> |
| GNSS Band           | <b>All Bands</b>                          |
| GNSS Constellations | <b>All Constellations</b>                 |
| IMU                 | <b>Built-in 9-axis IMU</b>                |

## Smart Batteries

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

## Case

|                            |                                            |
|----------------------------|--------------------------------------------|
| Weight                     | <b>17.6 lbs.</b>                           |
| Weight Fully Loaded        | <b>37 lbs.</b>                             |
| Exterior Dimensions        | <b>32.4" x 18.5" x 10.85"</b><br>L x W x D |
| Exterior Cubic Volume      | <b>3.75 cu. ft.</b>                        |
| Add'l Exterior Attachments | <b>Roll Wheels, Handle</b>                 |



**See the SkyScout 2+ in action**  
SCAN TO WATCH

## Drone

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| Maximum Sustainable Payload         | <b>3.85 lbs.</b>                                                        |
| Max Flight Time to Battery Failsafe | <b>No payload: 35 min.</b><br>With 2.2 lb payload: 30 min (+/- 2 min)   |
| Max Wind Rating                     | <b>50 MPH</b>                                                           |
| Collision Avoidance                 | <b>Front, backwards, downwards</b>                                      |
| Terrain Follow Source               | <b>GNSS (high altitude) or LiDAR Range Finder (low altitude)</b>        |
| Folded Dimensions                   | <b>4.5" x 10" x 17"</b>                                                 |
| Fully Assembled Dimensions          | <b>14" x 24" x 24"</b>                                                  |
| Diagonal Wheelbase                  | <b>32.5" (props folded); 49" (props unfolded)</b>                       |
| Battery Configuration               | <b>2 x WISPR Smart Batteries</b>                                        |
| Weight                              | <b>5.5 lbs.</b>                                                         |
| Max Takeoff Weight                  | <b>12.2 lbs.</b>                                                        |
| Max Speed                           | <b>50 MPH</b>                                                           |
| Operating Temperature               | <b>-4° F to 122° F</b>                                                  |
| Propeller Size                      | <b>18.2" x 5.9"</b>                                                     |
| Orientation LED Light Covers        | <b>Red (Rear), White (Front)</b>                                        |
| Flight Controller                   | <b>Cube Orange +</b>                                                    |
| I/O Ports                           | <b>MicroUSB (Flight Controller access) and USB-C (GPS logs storage)</b> |
| Additional Mounting                 | <b>Extra GNSS antenna mount for LIDAR payloads</b>                      |
| Frame Type                          | <b>Quad Copter</b>                                                      |
| Made in America                     | <b>Yes</b>                                                              |

## Smart Controller

|                         |                                     |
|-------------------------|-------------------------------------|
| Smart Controller        | <b>WISPR Smart Controller</b>       |
| Display                 | <b>7" LCD Screen</b>                |
| Roll Wheel Options      | <b>Dual Roll Wheels</b>             |
| Video Transmission      | <b>1080p 30fps</b>                  |
| IP Rating               | <b>IP55</b>                         |
| Drop Test               | <b>Passed MIL-STD-810 Drop Test</b> |
| Brightness              | <b>2000nits</b>                     |
| Frequency               | <b>2.4Ghz and 5Ghz</b>              |
| Range                   | <b>3 miles</b>                      |
| Antennas                | <b>4 x Antenna</b>                  |
| Transmission Encryption | <b>AES256</b>                       |

