

WISPR 61 FLEX

FULL-FRAME MULTI-LENS AERIAL CAMERA

A 61-megapixel full-frame aerial camera on a stabilized 3-axis gimbal with interchangeable 35, 50, and 75 mm lenses — one flexible payload for mapping, inspection, and reconnaissance.



61MP
RESOLUTION

FULL
FRAME SENSOR

4K
VIDEO

3
LENS OPTIONS

3AXIS
STABILIZED GIMBAL

Camera Lens

Lens Options **Sony FE Mount 35mm f2.8**
Sony FE Mount 50mm f2.8 · Rokinon E-Mount 75mm f1.8

Field of View **35mm f2.8 → 62°**
50mm f2.8 → 47° · 75mm f1.8 → 32.9°

Gimbal

Angular Vibration Range **±0.02°**

Max Controlled Rotation Speed **Pan 180°/s**
Tilt 180°/s · Roll 180°/s

Mechanical Endpoint Range **Pan ±326°**
Tilt +50° ~ -140° · Roll +50° ~ -274°

Controlled Rotation Range **Pan ±320°**
Tilt +40° ~ -120° · Roll ±40°

Operating Temperature **32°F – 122°F**

Key Capabilities

- 61 MP Sony full-frame Exmor R sensor
- Full manual control when you need it
- Verify shots on the go
- Multiple lenses, multiple missions, one payload
- RTK / PPK ready
- Purpose-built for the job

APPLICATIONS

Large-area orthomosaic mapping, high-detail inspection, reconnaissance, and survey missions where maximum image resolution is required.

Camera

Sensor **Exmor R CMOS sensor**

Sensor Size **1.38" in Full Frame**

Sensor Width **1.41"**

Sensor Height **0.94"**

Photo Resolution **61 megapixels**

Image Size **9504 x 6336**

Photo Format **JPEG, HEIF, RAW**

Video Resolution **4K @ 59.94p max**
1080P @ 119.88p max

Video Format **XAVC S: MPEG-4 AVC/H.264**
XAVC HS: MPEG-H HEVC/H.265

Shutter Type **Mechanical / Electronic Shutter**

Shutter Speed **Mechanical: 1/4000 to 30 s**
Electronic: 1/8000 to 30 s · Movies: 1/8000 to 1 s

Exposure Settings **+/- 5.0 EV (1/3 EV, 1/2 EV steps)**

ISO Sensitivity **Still: ISO 100–32000 (exp. 50–102400)**
Movies: ISO 100–32000 equiv. · AUTO 100–12800

PAL/NTSC **Supported**

ULTRA-HIGH RESOLUTION

The 61 MP full-frame sensor captures fine detail for large-area orthomosaics, inspection, and reconnaissance where image quality is critical.

INTEGRATION

Mounts on WISPR SkyScout platforms with SnapFit adapters for rapid swaps between imaging, LiDAR, and mapping payloads.