

24MP Mapper

AERIAL MAPPING CAMERA · SONY 24 MP APS-C

A 24-megapixel Sony APS-C mapping camera on a stabilized 3-axis gimbal, purpose-built for high-resolution aerial survey and orthomosaic capture.



24MP
RESOLUTION

APS-C
CMOS SENSOR

16MM
SONY E LENS

83°
FIELD OF VIEW

3AXIS
STABILIZED GIMBAL

Camera Lens

Lens Options	Sony E Mount 16mm Lens
Field of View (FOV)	83°

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 +45° ~ -125° · Roll +45° ~ -45°
Controlled Rotation Range	Pan ±320° Tilt +40° ~ -120° · Roll ±40°
Operating Temperature	32°F – 122°F

Key Capabilities

- 24 MP Sony APS-C CMOS sensor
- Fixed 16 mm Sony E-mount lens, 83° FOV
- 3-axis stabilized gimbal (±0.02°)
- RAW / JPEG / HEIF still capture
- SnapFit integration on WISPR platforms

BUILT FOR MAPPING

The 24 MP APS-C sensor and fixed 16 mm lens deliver crisp, geometrically stable imagery for orthomosaics, 3D models, and inspection at survey speed.

APPLICATIONS

Orthomosaic mapping, construction progress, corridor and asset inspection, precision agriculture, and site documentation.

Camera

Sensor	Exmor APS-C CMOS
Sensor Size	1.11"
Sensor Width	0.93"
Sensor Height	0.61"
Photo Resolution	24 megapixels
Image Size	6000 x 4000
Photo Format	JPEG, HEIF, RAW
Video Resolution	1080P @ 60p max
Video Format	XAVC S: MPEG-4 AVC/H.264 AVCHD 2.0 / MP4
Shutter Type	Mechanical / Electronic Shutter
Shutter Speed	Still (Mechanical): 1/4000 to 30 s
Exposure Compensation	+/- 5.0EV in 0.3EV steps
ISO Sensitivity	Auto, 100–25600 51200 available with MFNR
PAL/NTSC	Supported

INTEGRATION

Mounts on WISPR SkyScout platforms with SnapFit adapters for rapid payload swaps between mapping, LiDAR, and inspection missions.