Spectral Sunlight Sensor	Built into the aircraft
Gimbal	
Stabilization System	3-axis (tilt, roll, pan)
Mechanical Range	Tilt: -135° to 45° Roll: -45° to 45° Pan: -27° to 27°
Controllable Range	Tilt: -90° to 35° Pan: not controllable
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.007°
RGB Camera	
Sensor	4/3 CMOS; Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞ (with autofocus)
ISO Range	100-6400
Shutter Speed	Electronic shutter: 8-1/8000 s Mechanical shutter: 8-1/2000 s
Max Image Size	5280×3956
Photo Shooting Mode	Single shot: 20 MP Timed: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG + RAW: 3/5/7/10/15/20/30/60 s Panorama: 20 MP (raw image)
Video Encoding and Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
Video Bitrate	4K: 130Mbps FHD: 70Mbps
Photo Format	JPEG/DNG (RAW)
Video Format	MP4 (MPEG-4 AVC/H.264)
Supported File System	exFAT
Digital Zoom	8x
Multispectral Camera	
Sensor	1/2.8" CMOS; Effective pixels: 5 MP
Lens	FOV: 73.91° Format Equivalent: 25 mm Aperture: f/2.0 Focus: N/A
Narrow Band Filter	Green (G): 560±16 nm, Red (R): 650±16 nm, Red edge (RE): 730±16 nm, Near-infrared (NIR): 860±26 nm
Gain Range	1x-32x
Shutter Speed	Electronic shutter: 1/30-1/12800 s

Max Image Size	2592×1944
Photo Shooting Mode	Single shot: 5 MP Timed: 5 MP TIFF: 2/3/5/7/10/15/20/30/60 s
Video Encoding and Resolution	H.264 FHD: 1920×1080@30fps Video content: NDVI/GNDVI/NDRE
Video Bitrate	Stream 60Mbps
Photo Format	TIFF
Video Format	MP4 (MPEG-4 AVC/H.264)
Sensing	
Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.
Forward	Measurement Range: 0.5-20 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤15 m/s FOV: Horizontal 90°, Vertical 103°
Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤12 m/s FOV: Horizontal 90°, Vertical 103°
Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤15 m/s FOV: Horizontal 90°, Vertical 85°
Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 100°, Left and Right 90°
Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 130°, Left and Right 160°
Operating Environment	Forward, Backward, Lateral, and Upward: surface with a clear pattern and adequate lighting (lux >15) Downward: diffuse reflective surface with diffuse reflectivity>20% (e.g. walls, trees, people) and adequate lighting (lux >15)
Video Transmission	
Video Transmission System	DJI O3 Enterprise Transmission
Live View Quality	Remote Controller: 1080p/30fps
Operating Frequency[2]	2.400-2.4835 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC)
Max Transmission Distance (unobstructed, free of interference)[3]	15 km (FCC), 8 km (CE/SRRC/MIC)