

Nolvis **M1**



**The new standard for
enterprise drones.**



Nolvis Pilot

Professional-grade control.

Mission-ready reliability.

- ✓ Built-in NTRIP Client
- ✓ RTK
- ✓ FCC Certified



Payload



✓ LR1 - Camera -



✓ NV1 - EO/IR Multi Sensor -



✓ NL1 - LiDAR -

Specifications

Nolvis M1

Max Payload
5.5 lbs (2.5 kg)
Weight (with battery)
7.96 lbs (3.61 kg)
Max Takeoff Weight
13.47 lbs (6.11 kg)
Dimensions
unfolded: 44.7 × 40.0 × 11.4 in (1135 × 1015 × 290 mm)
folded: 16.2 × 10.8 × 12.4 in (411.5 × 275 × 315 mm)
Estimated Maximum Hover Time
40 min @ 5.5 lbs payload
(90 min excl. payload)
Max Transmission Distance
6.2 mi (10 km) omnidirectional antenna
9.3 mi (15 km) directional antenna
MAX FLIGHT SPEED (horizontal)
40.2 mph (18 m/s)
GNSS
Dual RTK GNSS & E-heading support
RTK GNSS Accuracy (horizontal)
0.04 in + 1 ppm (1 cm + 1 ppm)
IP Rating
IP44
Max Wind Resistance
34 mph (15 m/s)
OPERATING TEMPERATURE
14 °F to 122 °F (-10 °C to 50 °C)
FPV Camera
1080P · FOV 120° night vision supported
Power
6s 20 Ah semi-solid-state lithium-ion battery cell (438 Wh)

Nolvis Pilot

Dimensions
11.02 × 5.91 × 2.36 in (280 × 150 × 60 mm)
Weight
approx. 2.43 lbs (1.1 kg)
Screen
7-inch 1080p, 1,000-nit sunlight-readable
Operating Frequency
2.4000 – 2.4835 GHz
Max Transmission Distance
6.2 mi (10 km)
Battery Capacity
10,000 mAh7.4 V · 74 Wh
Battery Life
approx. 4.5 hours

LR1

Sensor
61.0 MP Full-frame CMOS
Shutter
High-speed mechanical shutter
Supported Lenses
24 / 40 / 50mm (E-mount)
Onboard AI
Jetson Xavier NX (21 TOPS)
Weight
1.57 lb (710g) (excluding lens)

NV1

Optical Zoom
25x optical zoom (STARVIS™ 2)
Thermal Sensor
640×512 -40°F to 1022°F (-40°C to 550°C)
Laser Rangefinder
Up to 2.2 mi (3.5 km)
Onboard AI
Jetson Xavier NX (21 TOPS)
Weight
approx. 2.2 lbs (1.0 kg)

NL1

System Accuracy
±2.0 in (±5 cm)
Max Scan Rate
Max 2,000,000 pts/sec (Max 16 echoes)
Laser Safety / FOV
Class 1 Eye-Safe FOV 90°
Auxiliary Cameras
Dual RGB cameras (26MP × 2)
Weight
4.08 lbs (1.85 kg)



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