

Headwall



PRODUCT DATA SHEET



Nano-Hyperspec[®]
&
DJI MATRICE™ M600 Pro
Integrated & Flight-Ready!



THE FUTURE OF POSSIBLE

- Professional airborne performance
- Research-grade hyperspectral data
- High payload capacity; long-duration flight times
- Headwall-customized stabilizing gimbal
- Multiple flight-control redundancies
- 270 Spectral bands (VNIR 400-1000nm)
- Aberration-corrected imaging, wide FOV
- Airborne hyperspectral software
- Internal SSD data storage
- Maximum Frame Rate up to 350Hz



THE FUTURE OF POSSIBLE

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DJI MATRICE™ M600 Pro	
Diagonal wheelbase	1133mm
Dimensions	1668 mm × 1518 mm × 727 mm with propellers, frame arms and GPS mount unfolded (including landing gear). 437 mm × 402 mm × 553 mm with propellers, frame arms and GPS mount folded (excluding landing gear)
Weight (with six TB47S batteries)	9.5 kg
Max Takeoff Weight Recommended	15.5 kg
Hovering Accuracy (P-GPS)	Vertical: ±0.5 m, Horizontal: ±1.5 m
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	25 degrees
Max wind resistance	8 m/s
Max ascent speed	5 m/s
Max descent speed	3 m/s
Max service ceiling above sea level	2170R propellers: 2500 m 2195 propellers: 4500 m
Max speed	40 mph / 65 kph (no wind)
Flight time	Depends on payload and flying conditions
Retractable landing gear	Standard
Gimbal	Custom and stabilized for hyperspectral imaging
Standard battery	4500mAh
Information above based on DJI-published specifications available at www.dji.com	

Nano-Hyperspec®	
Wavelength range	400-1000 nm
Spatial bands	640
Spectral bands	270
Dispersion/Pixel (nm/pixel)	2.2
FWHM Slit Image	6 nm
Integrated 2 nd order filter	Yes
f/#	2.5
Layout	Aberration-corrected concentric
Entrance Slit width	20 µm
Camera technology	CMOS
Bit depth	12-bit
Maximum Achievable Frame Rate (Hz)	350
Detector pixel pitch	7.4 µm
Max Power (W)	13
Storage capacity	480GB (~130 minutes at 100 fps)
Weight without lens, GPS (lb / kg)	1.2 / 0.5
Operating Temperature	0 °C to 50 °C

Nano-Hyperspec®

- Also available in sensor-only configurations
- 270 spectral bands
- 480GB on-board storage
- Max. Frame Rate: 350Hz
- Small size, weight, power



Maximum achievable frame rate is configuration dependent. Contact us to discuss your desired application.

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