Skyfish me Drone - Technical Specifications

THE SKYFISH M6 DRONE is a heavy-lift hexacopter designed for professional applications including infrastructure inspection and 3D modeling, infrared missions, gas detection, robotic interactions, and more.

M6 is designed for rapid deployment (set-up times under 2 mins) and easy "pack and go" transportation. Skyfish uses a quick release modular gimbal system that allows the user to quickly (under 30 seconds) switch between payloads. Our high quality Li-ion flight batteries have 500+ life cycles each and enable M6 to fly a mission in just one pass.

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Dimensions (unfolded)	68.5" L x 68.5" W x 22.62" H
Dimensions (folded)	23.25" L x 20" W x 22.62" H
Ground clearance	16.66"
Empty weight	23 lbs
All up weight	39 lbs
Max. payload	12 lbs
System architecture	Modular motherboard
Max. air speed	65 mph
Max. ascent/decsent speed	Customizable up to 16 ft/s
Max. pitch angle	Customizable up to 45°
GPS	RTK ready, sub 5cm-level accuracy
Operation temperature	32°f to 115°f
Service ceiling AGL	2,000 ft.
Flight modes	4 autonomous modes (Loiter, Guided, Stabilize, RTL), manual, custom modes

POWERPLANT:

Number of motors	6	
Motor max. instantaneous peak power	9 KW (1500 W per motor) (<5 seconds)	
Motor normal power consumption	2 KW (330 W per motor)	
Equivalent KV	170 rpm/V	
Onboard power	2 programmable power outputs (1-14V, 2.5A each)	

BATTERY:

Number of battery packs	4 Li-ion packs onboard
Battery capacity	12,000 MaH (per pack)
Peak battery voltage	25 V (per battery)
Nominal battery voltage	22.2 V (per battery)
Battery life cycle	500+ life cycles per pack
Battery connectors	BAM, anti-spark

SKYMIND - LINUX-BASED ONBOARD COMPUTER:

Takeoff and landing	Automated	
Obstacle detection capability	Forward facing o	bstacle notification system
Terrain following	SRTM	
Special features	Real-time geome	tric projection system for mapping camera view objects
Failsafe behaviors		omated component connection, in-flight actions, option to ize, and add failsafes

PROPELLERS:

Material	Carbon composite
Dimensions	22" (L)
Orientation	3 CW, 3 CCW