Skyfish **M**4 Drone – Technical Specifications

THE SKYFISH M4 DRONE is our flagship sUAS model designed for professional applications including infrastructure inspection and 3D modeling, infrared missions, gas detection, robotic interactions, and more.

M4 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 M4 to fly a mission in just one pass.

AIRCRAFT:	
Dimensions (unfolded)	51.0" L x 46.25" W x 18.5" H
Dimensions (folded)	19.16"L x 18.78"W x 18.5"H
Ground clearance	13.36"
Empty weight	16 lbs
All up weight	26 lbs
Max. payload	6 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	4
Motor max. instantaneous peak power	6 KW (1500 W per motor) (<5 seconds)
Motor normal power consumption	1.3 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	2 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 obstacle notification system
Terrain following	SRTM
Special features	Real-time geometric projection system for mapping camera view objects
Failsafe behaviors	Low voltage, automated component connection, in-flight actions, option to combine, customize, and add failsafes

Material Carbon composite Dimensions 22" (L) Orientation 2 CW, 2 CCW	PROPELLERS:	
	Material	Carbon composite
Orientation 2 CW, 2 CCW	Dimensions	22" (L)
	Orientation	2 CW, 2 CCW