

 SKYFISH

m4

FLY. MAP. MODEL. ANALYZE.

AMERICAN
MADE 



SKYFISH

Skyfish is an American drone manufacturer and drone platform. Skyfish is a fully customizable system that includes hardware, flight planning software, data processing and analytics, and digital asset management.

Skyfish makes high performance drones designed to carry payloads useful to the commercial and government sectors. Skyfish has specific expertise in infrastructure inspection, reconnaissance, delivering robotic payloads, photogrammetry, 3D modelling, LiDAR, and more.

SKYFISH M4 DRONE

The Skyfish M4 drone is purpose-built for infrastructure scanning, engineering-grade measurement, thermal tracking and analysis, surveying, and 3D modelling. The M4 is sensor-agnostic, meaning that it can be configured for a range of data collection methods, including photogrammetry, LiDAR, and gas leak detection. The M4 can be remotely programmed for autonomous BVLOS flight and complex inspection orbits for virtually any target infrastructure, natural or man-made. The Skyfish M4 has 4 motors, 2 onboard battery packs, and often flies projects in one pass.

WHY SKYFISH?

- Designed, manufactured, tested, and supported in the USA.
- Full system of drone hardware and software supported by one team.
- Dedicated to advancing intelligent, user-friendly sUAS design, operation, and safety.
- Extensive testing methodology.
- Customizable hardware and software for unique workflow requirements.
- Highest security standards. All customer data is 128-bit AES encrypted.
- Comprehensive 107 Pilot training program that enables enterprise customers to scale nationally using their own pilots.

M4 HIGHLIGHT FEATURES

- Autonomous flight system with active radar for takeoff and landing, smart return to launch (RTL), and complex flight planning with sensor triggers.
- Heat resistant with active cooling.
- RF hardened (RF shielded) for ultimate signal protection.
- Easy “pack and go” transportation with foldable carbon polymer props and boom arms.
- Integrated RTK system with redundant, flush mounted antennas. Centimeter level accuracy for robust height and position hold.
- Collision-avoidance ready for complex airspace with GPS-denied capability and full Esri / Google mapwith.us integration.
- Encrypted telemetry and video transmission with 5 mi range.
- High quality Li-ion battery packs with 500+ life cycles each. Easy swap out and interchange.
- Ruggedized remote controller. All-weather sealed with LCD impact protection.

AIRCRAFT	
Dimensions (unfolded)	51.0 x 46.3 x 19.6 in
Dimensions (folded)	18.2 x 17.5 x 18.3 in
Empty weight	8.4 lb
Maximum gross takeoff weight	24.0 lb
Maximum speed	S Mode: 65.0 mph / P Mode: 38.0 mph / A Mode: 51.4 mph
Maximum ascent/descent speed	16.4 ft/s
Maximum pitch angle	45°
Flight modes	Manual, Loiter, Guided, Stabilize, RTL, custom modes
GPS	RTK ready, redundant flush mounted antennas
System architecture	Motherboard

POWERPLANT	
Number of motors	4
Motor maximum continuous power	200 W
Motor maximum instantaneous peak power	250 W (<5 seconds)
Equivalent KV	330 rpm/V
Onboard power	2 programmable power outputs (1-14V, 2.5A each)

OPERATION AND ENVIRONMENTAL	
Operation temperature	0°F to 115°F
Service ceiling ASL	14,000 ft
Service ceiling AGL	2,000 ft

PROPELLERS	
Material	Carbon polymer
Dimensions	22 in (L), 7.2° pitch
Orientation	2 x CW, 2 x CCW

REMOTE CONTROLLER	
Form factor	Encased Panasonic® Toughbook™ Windows® 10 tablet computer, integrated control sticks, programmable 2- and 3-way switches, lockable hat switch, and more custom options available
Display	10.1 in
Durability	LCD impact protection, all-weather sealed, 4ft drop, shock, and vibration durability (MIL-STD-810G and IP65 certified)

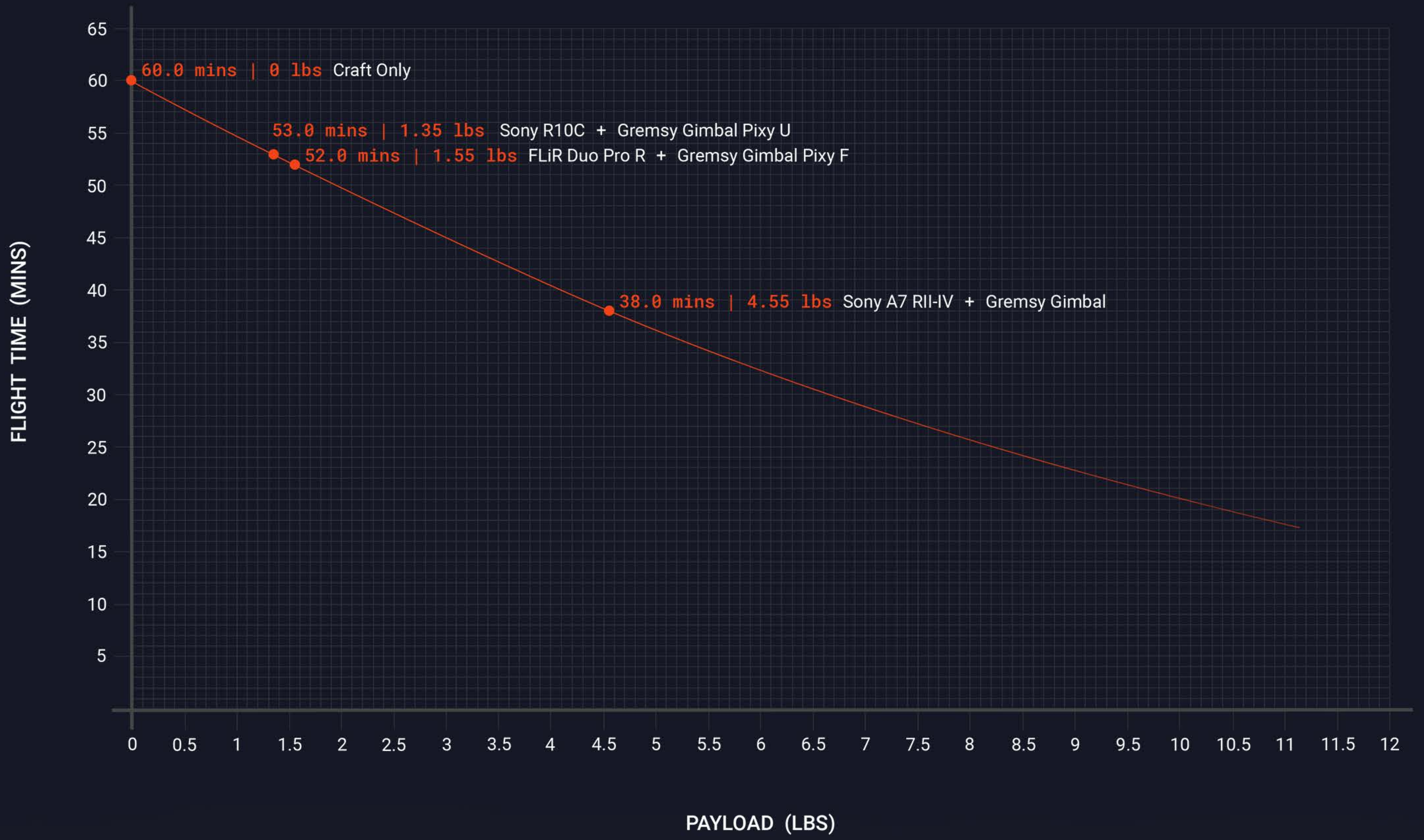
SKYMIND™ ONBOARD COMPUTER	
Weight	0.002 lb (40g)
Takeoff and landing	Automated
Computer vision	Machine vision ready
Terrain following	SRTM
Collision avoidance	Forward facing
Onboard network	Ethernet (100 Mb)
Special features	Real-time geometric projection system for mapping camera view objects
Failsafe behaviors	<ul style="list-style-type: none"> • Low voltage failsafe • Drone component connection failsafe behaviors • Notifications to pilots • Automated action options: hover, RTL, land now • Option to combine and customize failsafe behaviors to your specific workflow
Field data sharing	Real-time team viewing

BATTERY	
Number of battery packs	2 Li-ion packs
Battery capacity	520 Wh per pack
Peak battery voltage	25 V
Nominal battery voltage	18 V
Battery life cycle	500+ cycles per pack
Battery connectors	XT-90 anti-spark

Ask us about our gimbals, radios, ground control station, and battery management system info@skyfish.ai



m4 Flight Time vs. Payload



Skyfish is the most flexible drone platform on the market today.

Your pilots can customize our engineering grade hardware and software or integrate your own firmware innovations.

CUSTOM SENSOR API

Skyfish integrates with the Sony Alpha and QX series of cameras, FLiR cameras and other thermal imaging equipment, RICO sensors, LiDAR sensors, infrared cameras, robotics equipment, emissions systems, and more.

FLIGHT PLANNING with Skyfish Mission Control™ or KML, KMZ, and geo-PDF import.

USB CONNECTIVITY for custom firmware integrations and software updates.

INTEGRATE with software like Bentley for 3D modelling, Pix4D for drone mapping, and more.

CUSTOMIZE switches, control sticks, and buttons on the Skyfish remote controller.

GENERATE, STORE, SHARE 3D Models, maps, geo-tagged photos, and video timelines.

EXPORT Skyfish generated models and maps into Esri, Google, CAD, and other frameworks.

DESIGNED, MANUFACTURED, TESTED,
AND SUPPORTED IN THE U.S.

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WHAT COMES IN THE BOX?



Skyfish M4 drone platform



Flight batteries (2 sets, Li-Ion, 6s 24000mAh)



Charger and power supply (battery or generator)



Pelican™ travel case



Skyfish remote controller



RTK GPS



Propellers (2 sets of 4)



Landing gear



Repair kit



User manual



Support connection



More, depending on customer specs