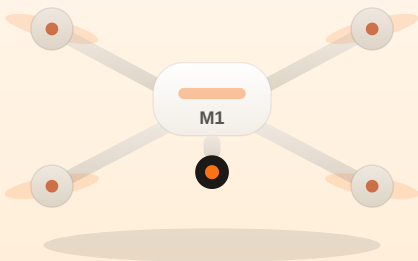


Mapple M1

Lightweight · single-site & rapid inspection



The M1 is our lightweight airframe — folds for backpack transport, launches in under a minute, and covers rooftops, small solar arrays, and warehouse interiors where LiDAR isn't required.

32 min FLIGHT TIME / BATTERY	20 kt SUSTAINED WIND RATING	4 km RANGE FROM DOCK	920 g TAKEOFF WEIGHT
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AIRCRAFT	
Class	Lightweight inspection quadcopter
Takeoff weight	920 g
Dimensions (unfolded)	348 × 283 × 108 mm · folds for backpack transport
Max flight time	Up to 32 min · standard mission profile
Max speed	19 m/s
Wind resistance	20 kt sustained / 27 kt gust
Operating range	Up to 4 km from operator/dock
Operating temperature	-10 °C to 40 °C
Ingress protection	IP43 · light rain / dust
SENSORS & PAYLOAD	
Primary camera	4/3 CMOS, 20 MP, mechanical shutter
Thermal	Optional 640 × 512 radiometric module · field-swappable
LiDAR	Not available on M1 · see M2
Obstacle sensing	Omnidirectional binocular vision
Positioning	GNSS; optional RTK module (cm-level)
OPERATIONS	
Geofence	Soft + hard boundaries, per-mission in FleetOps
Typical use	Roofs, small solar, warehouse interiors, spot checks

