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DRAGONFISH

A **Revolutionary**
eVTOL Fixed-Wing sUAS

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Dragonfish At a Glance

120 min
Flight Time

18.6 mi
Video Transmission Range

67 mph
Top Speed

4k 20X
Optical zoom

3 min
Quick assembly
2-min toolless assembly

5 sec
Boot and self-check

1-Tap
Take-off and landing & other
smart autonomous features

IP43
Weather resistance

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Why **VTOL?**

Autel's VTOL Advantages

Multirotor		Traditional Fixed-wing		Dragonfish (VTOL)	
Take-off & Land Anywhere	✓	Take-off & Land Anywhere	✗	Take-off & Land Anywhere	✓
Long Flight Time	✗	Long Flight Time	✓	Long Flight Time	✓
Easy to Fly	✓	Easy to Fly	✗	Easy to Fly	✓

Versatility in Flight

The Vertical Take-off or Landing (VTOL) capabilities of the Dragonfish give you more flight time than a quadcopter and more flexibility than a traditional fixed-wing.

Limitations of Traditional Fixed-Wing Aircrafts

Launcher ✗   Hand Thrown ✗

Runway ✗   Parachute ✗

✓

Fixed-Wing

Traditional methods of take-off for fixed-winged aircraft have additional restrictions and require additional training. Fixed-winged systems may also require parachutes or a clearing to crashland.

Dragonfish (VTOL)

With the Dragonfish, no launchers, throwing, or runways are needed for take-off. Make any 10x10ft square your take-off and landing area.

Efficient Propulsion

Compact & Portable Aircraft
Lightweight and fits in the back of any SUV/crossover vehicle.

Universal Power Source
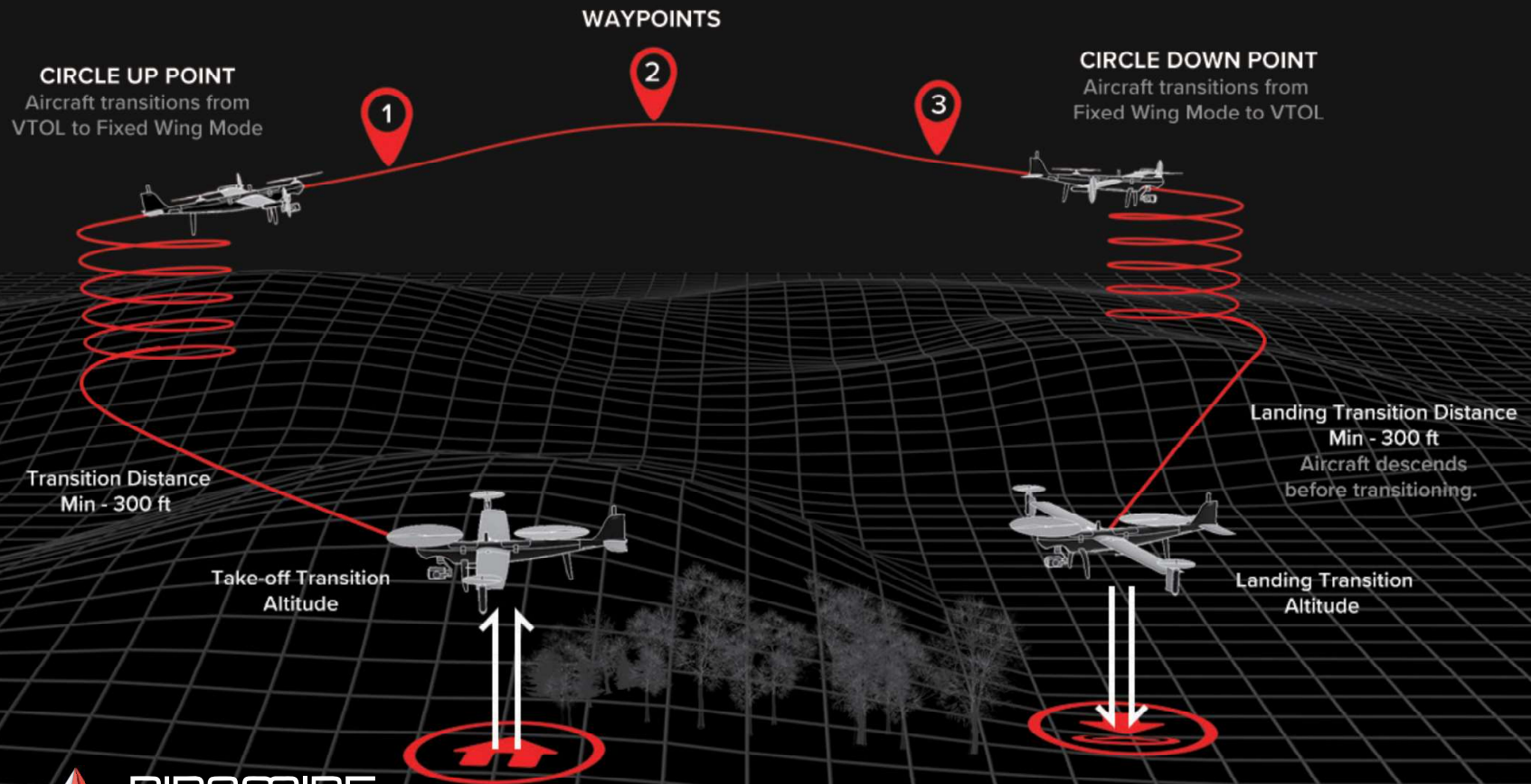No specialized fuel source needed and next to no maintenance costs.

Near-Silent Operation
Dragonfish is inaudible above 300 ft AGL.

Designed for the Future
An eco-conscious and green aircraft.

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Dragonfish Flight Logic

WAYPOINTS

CIRCLE UP POINT
Aircraft transitions from
VTOL to Fixed Wing Mode

CIRCLE DOWN POINT
Aircraft transitions from
Fixed Wing Mode to VTOL

Landing Transition Distance
Min - 300 ft
Aircraft descends
before transitioning.

Transition Distance
Min - 300 ft

Take-off Transition
Altitude

Landing Transition
Altitude

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Compact, Portable, Precise

Ultra-Portable:

The Dragonfish's carrying case is lightweight and fits in the back of any SUV/Crossover.

Fast Deployment:

The Dragonfish can be assembled toolless in 2 minutes and is ready to fly in 5.

Class-Leading Flight Time:

120 minutes of flight time with payloads.

World-Class Telemetry:

30 km (18.6 miles) video transmission range* *with base station setup.

Wind Resistant:

Level 7 32-38 mile/hr winds * (* While transitioning, the wing resistance is level 6) .

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Redundancy with **Safety in Mind**

Flight Control System:
Autel Robotics' superior flight control platform guarantees stability and reliability in every flight.

Weather-resistant:
IP43. Rugged construction featuring a carbon-fiber core and fiber-glass composite outer shell provides additional rigidity and durability.

Internal Communication:
Dual-redundant CAN bus communication protects the aircraft from electromagnetic interference.

Attentive AI:
Vigilant AI continuously self-checks the system to prevent accidents or faults before they occur.

Automatic Mode Switch:
Dragonfish will automatically transition to multi-rotor mode if fixed-winged mode becomes unstable.

Backup Modules:
The aircraft's battery, barometer, positioning system, compass, and IMU all have backup modules to ensure flight safety.

Terrain Follow:
The aircraft's altitude will adjust based on natural terrain & obstacles. Manually adjust safe altitude tolerance as well.

Self Geofencing:
Create your own no-fly zones and safe fly zones near restricted airspace.

ADS-B:
With ADS-B receiving, detect the presence of any manned aircraft nearby to avoid mid-air collisions

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Interchangeable Payload System

DG-Z2

4K 20x Optical Zoom
12 Megapixel Wide-Angle Camera
3-Axis Stabilized Gimbal System

DG-T3

4K 20x Optical Zoom
12 Megapixel Wide-Angle Camera
640x512 High-Resolution Infrared
3-Axis Stabilized Gimbal System

DG-T3H

12 Megapixel Wide-Angle Camera
1280×1024 High-Resolution Infrared
Laser Distance Measurement Radar
3-Axis Stabilized Gimbal System

DG M1

1 Visible Light Sensor (12 Megapixels)
6 Multispectral Sensors
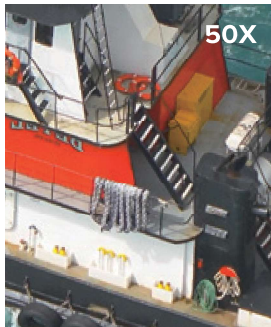3-Axis Stabilized Gimbal System

DG L20T

4K 20x Optical Zoom
12 Megapixel Wide-Angle Camera
640x512 High-Resolution Infrared
Laser Distance Measurement Radar
3-Axis Stabilized Gimbal System

Third-Party Payload SDK

Coming Soon

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Sensor Capabilities

20X

50X

1X

Zoom:

Identify subjects from long distances. (20x, 50x)

Wide-Angle:

Aids in situational awareness.

77° 30' 29.9988" S
164° 45' 15.0012" E

120m

Laser Range Finder:

Allows Dragonfish to target lock with exact distance and coordinate measurements. (Range 2km/ 1.25 mi)

Thermal 640x512:

High-resolution thermal imaging allows Dragonfish to see subjects in difficult terrain or in low light situations.

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Ground Control Station

Ultra-bright Display

9.7" 1000 nit display for daylight operation; twice as bright as a mobile device.

Long Battery Life

4.5 hours of battery life. Supports fast charging for multi-mission days.

Multi-port Output

Stream to 3rd party sources via the HDMI 2.1 output.

Data Encryption

Get reliable AES-256 bit encryption for data at rest and for data during transit.

Simple and Intuitive:

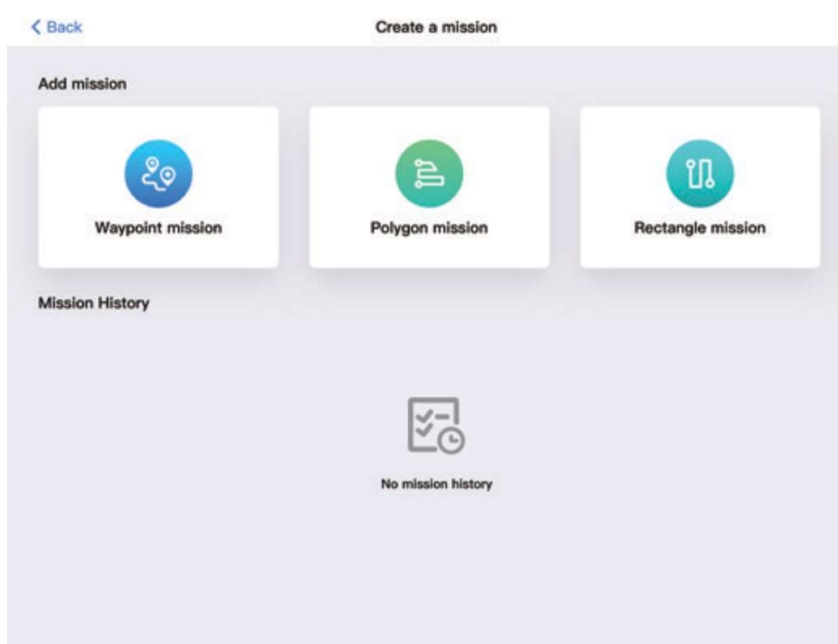Large button layout makes it easy to operate, even while wearing gloves.

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Autel **Voyager**

All-in-one Mission Planning

Perform advanced waypoint, rectangular, and polygon missions from start to finish.
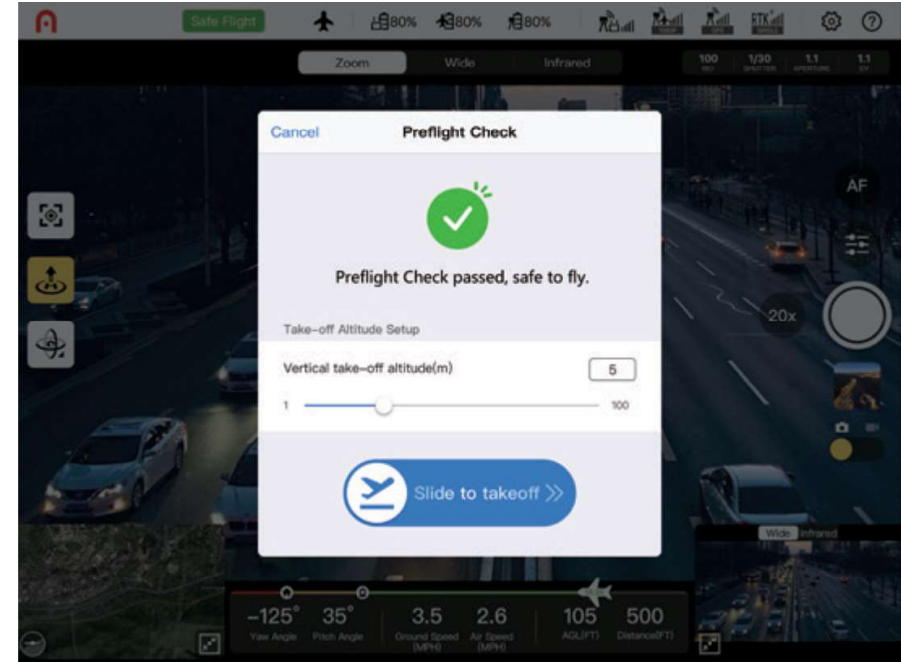
Quick Mission:

Create missions on the fly while the Dragonfish is in another mission. Create multiple missions within missions to suit changing situations.

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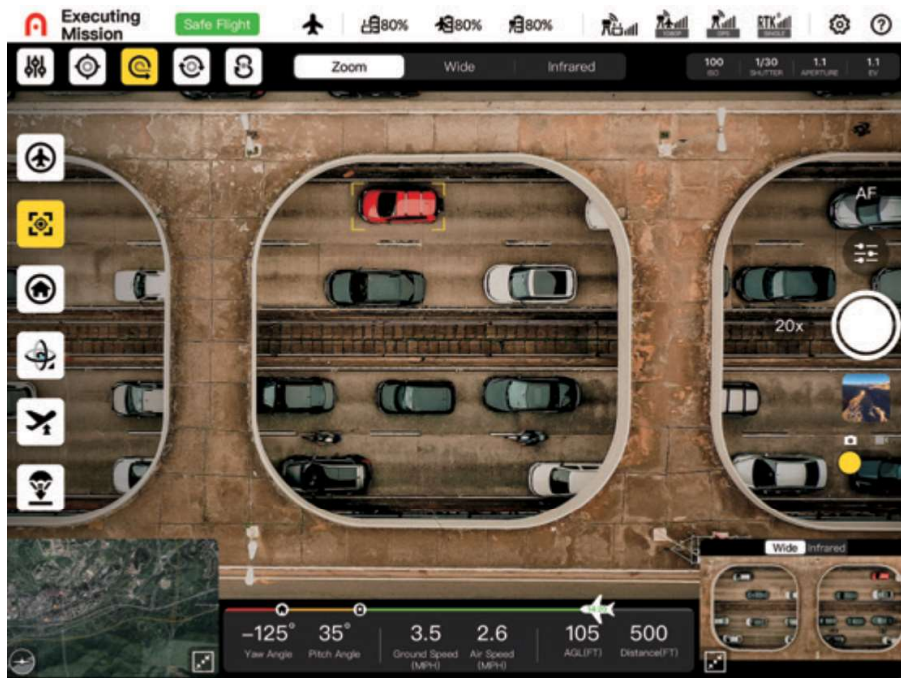
http://www.piramidetec.com.br

Manual Take Over:

The pilot can fly the drone manually at any point during a flight. The Dragonfish will automatically transition between fixed-wing and quadcopter mode depending on airspeed.

Easy 1-Tap Take-off and Landing:

Simply tap the screen and the Dragonfish will fly where you want it to go. Tap again to safely land the aircraft.

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Advanced & Predictive Tracking:

Track subjects at speeds of up to 60 mph. Continue to track moving objects, even when the object temporarily leaves line of sight.

Object Recognition:

Dragonfish can recognize up to 64 objects and can identify distinct objects, such as humans, animals, and vehicles.

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Practical Use Cases

Public Safety

Firefighting & Fire Prevention

Search & Rescue

Oil & Gas Corridor Inspection and Security

Traffic Monitoring & Management

Coastal Surveillance and Security

Border Patrol Security

Critical Infrastructure Protection

Disaster Relief

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Technical Specifications

Size	90.55" x 50.78" x 18.1" / 2300 x 1290 x 460 mm
Endurance (with payload)	120 min
Aircraft Weight (w/o payload)	16.5 lbs (7.5 kg)
Maximum Payload	3.3 lbs (1.5 kg)
IP Rating	IP43
Transmission Range	18.6 miles (30 km)
Wind Resistance	Level 6
Maximum Height	19,685 ft (6000 m)
Flying Speed	0mph to 38mph (Multirotor); 38mph to 67mph (Cruise Mode) 0m/s~17m/s (Multirotor); 17m/s~30m/s (Cruise Mode)
Working Temperature	-4°F to 122°F (-20 to 50°C) 1 cm+1 ppm (Multirotor)
Position Accuracy	3 cm+1 ppm (Cruise Mode)
GNSS	GPS+GLONASS+Beidou+Galileo

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Assista Em Nosso Site!