COMMAND THE FUTURE.

DRAGONFISH

A **Revolutionary**
eVTOL Fixed-Wing sUAS

Dragonfish At a Glance

120 min
Flight Time

18.6 mi
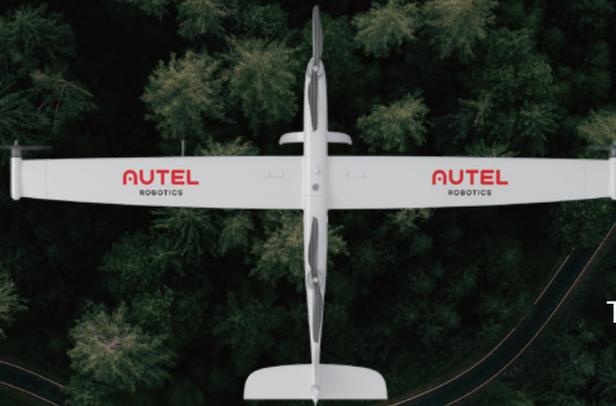Video Transmission Range

67 mph
Top Speed

4k 20X
Optical zoom
*most payloads

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

AUTEL
ROBOTICS

ROBOTICS

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

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** ✗

✓
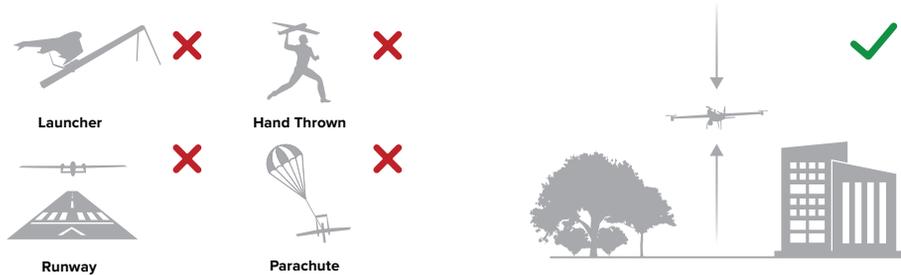
Fixed-Wing

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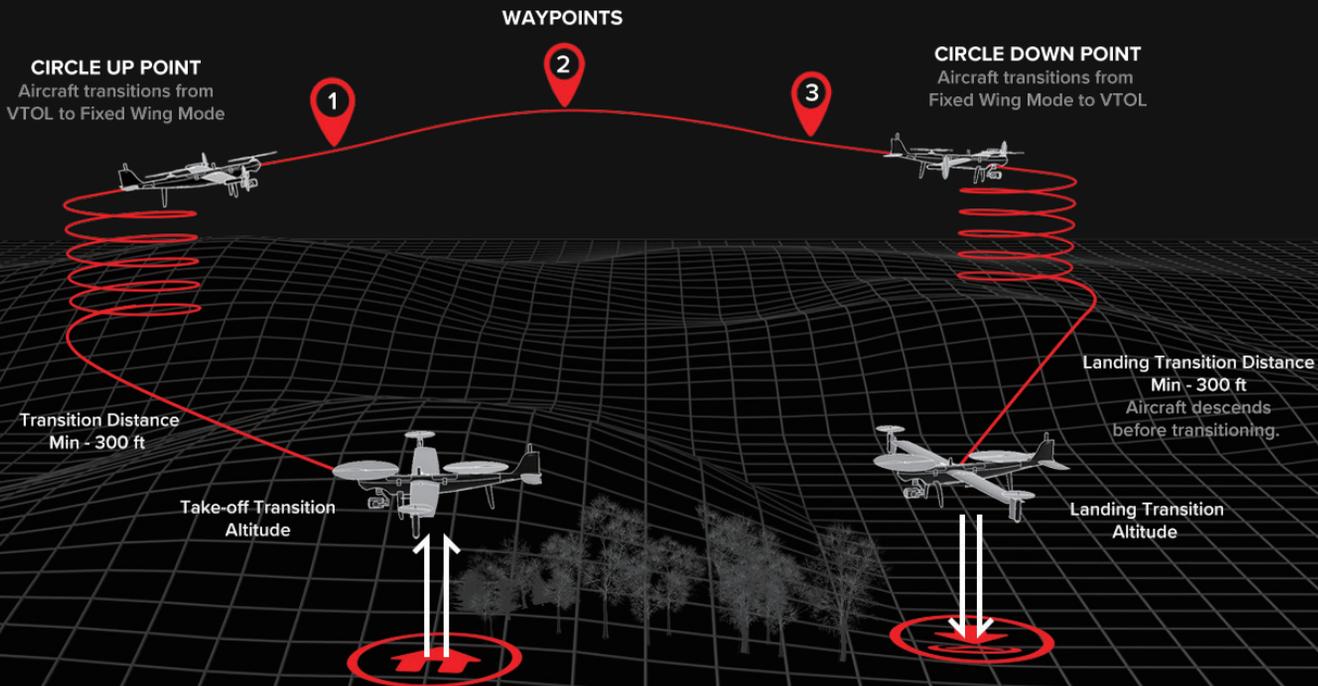
Near-Silent Operation
Dragonfish is inaudible above 300 ft AGL.

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

ROBOTICS

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs. To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

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

Transition Distance
Min - 300 ft

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

Take-off Transition
Altitude

Landing Transition
Altitude

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

ROBOTICS

autelrobotics.com

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) .

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs. To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

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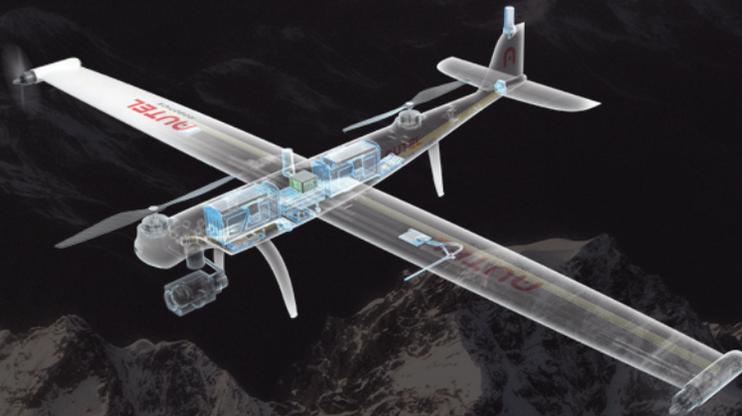
Internal Communication:
Dual-redundant CAN bus communication protects the aircraft from electromagnetic interference.

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 and ensure a safe flight.
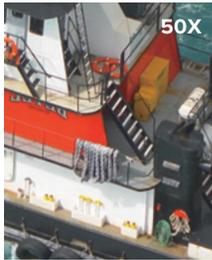
ROBOTICS

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs. To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

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

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

ROBOTICS

Sensor Capabilities

Zoom:

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

Wide-Angle:

Aids in situational awareness.

Laser Range Finder:

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

77° 30' 29.9988" S
164° 45' 15.0012" E   120m

Thermal 640x512:

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

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.

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs. To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

Autel **Voyager**
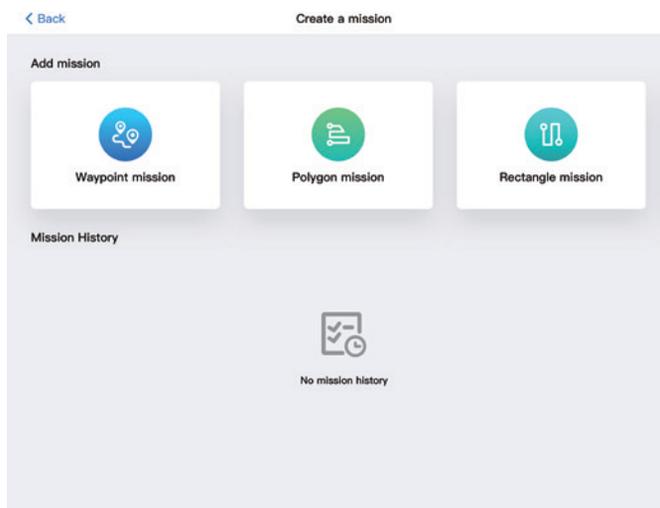
All-in-one Mission Planning

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.
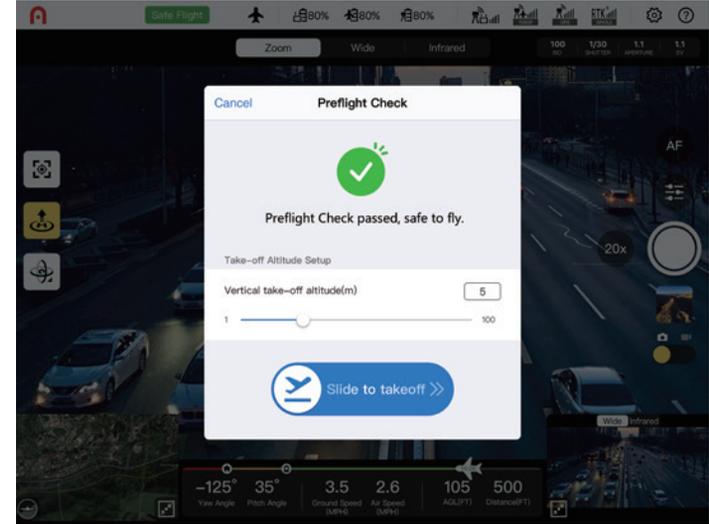
Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

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.

autelrobotics.com
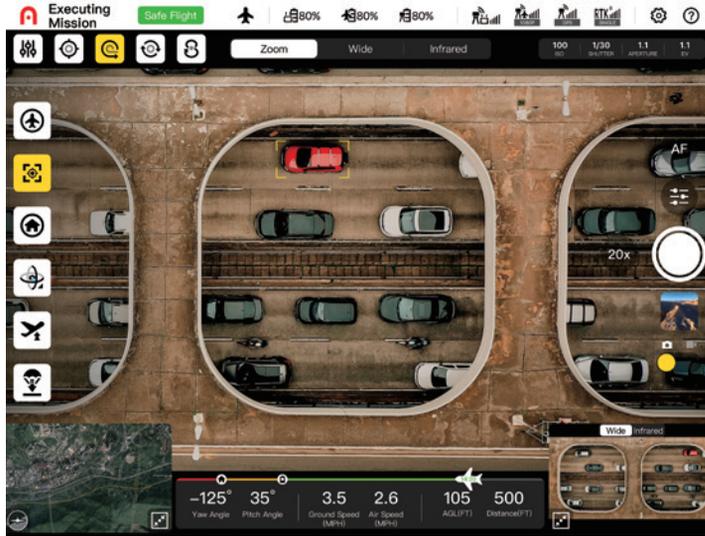
Advanced & Predictive Tracking:

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.

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

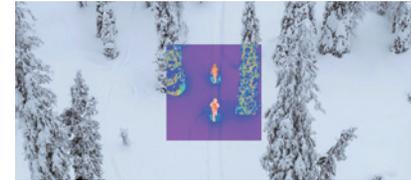**autelrobotics.com**

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

ROBOTICS

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

Where to **Buy**

Find a Dealer

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs. To locate the Autel dealer closest to you, visit

auteldrones.com/pages/dragonfish-authorized-dealers

Our Dealer Network

DRONENERDS   advexure   **GEN PAC** General Pacific, Inc.   **GRANITE DEFENSE** TECHNOLOGIES

ARMUS   **GRESCO**   **BLUE SKIES** Drones   **Darley**

droneworks   **FLYMOTION**

Carmine Marceno
Lee County Sheriff
Fort Myers, Florida

"The ability to fly our chopper for one call and launch the Dragonfish for another allows us to provide a higher level of service to the citizens of Lee County. Unlike our other drones, the distance we can fly the Dragonfish away from the operator makes it a crucial tool when searching for missing and endangered people or locating suspects."

Autel Robotics works with the best global partners to offer innovative products for your enterprise needs.
To locate the Autel dealer closest to you, visit **auteldrones.com/pages/dragonfish-authorized-dealers**

autelrobotics.com

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

autelrobotics.com

COMMAND THE FUTURE.

AUTEL
ROBOTICS

22522 29th Dr SE, Bothell,
Washington US

autelrobotics.com