

AIRCRAFT SPECIFICATION

The Discovery-201 is an extremely flexible, multi-role utility aircraft designed for operation on land, water, and snow.

WEIGHTS & LOADS

Max. Ramp Weight.....	4872 lbs/2210 kg
Max. Takeoff Weight.....	4850 lbs/2200 kg
Max. Landing Weight.....	4850 lbs/2200 kg
Empty Weight.....	2923 lbs/1326 kg
Useful Load.....	1926 lbs/874 kg
Loading Level Above Ground.....	2.95ft/0.9 m
Fuel Capacity (AVGAS 100, 100LL, B-95/130).....	2x92 gal/2x348 L
Oil: 15W-50, 20W-50, 10W-30, SAE 30, SAE 50 Std. MHS-24F/ 25	
Max. Wing Loading.....	26.44 lb/ft ² /129.1 kg/m ²
Max. Power Loading.....	11.5lbs/hp

PERFORMANCE

Stall Speed Vs ₁ (flaps up).....	65 kts
Stall Speed Vs ₀ (flaps down)	59 kts
Rate of Climb (max. cont. at SL)	1080 ft/329 m
Rate of Climb (10,000 ft).....	400 ft/min
Takeoff Ground Roll.....	1280 ft/390 m
Braked Roll (w/o Reverse).....	1080 ft/330m
Takeoff Distance over 50 ft Obstacle.....	2050 ft/625 m
Landing Roll.....	1080 ft/329 m
Landing Distance over 30 ft Obstacle.....	1710 ft/521 m
Ceiling	20,000 ft/6096 m

CRUISE PERFORMANCE

Maximum Range Cruise Speed.....	113 kts
Cruise Stall Speed (Vs).....	76 kts
Maximum Cruise Speed	143 kts

RANGE & ENDURANCE W/ 45 MIN RESERVES

Maximum Range	1350NM/2500Km
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POWERPLANT

Twin TCM IO-360ES7, Six-Cylinder, Fuel Injected	
Max. Continuous Power for each Engine.....	210 HP at 2800 RPM

PROPELLER

2 Hartzell PHC-H3YF-2KUF	
Constant Speed, 3 Blade, Feathering, Variable Pitch	
Diameter.....	76"
Tip Clearance.....	4.1 ft/1.24 m

WINDSPEED LIMITATIONS (without floats/skiis)

Headwind.....	29 kts
Tailwind.....	10 kts
Crosswind.....	13 kts

FUSELAGE

Cabin Width.....	4.3 ft/1.31 m
Cabin Height.....	4.1 ft/1.25 m
Cabin Length.....	10.4 ft/3.17 m
Cargo Volume.....	28.3 ft ³ /0.80 m ³
Cargo Upper Width Opening.....	2.79 ft/0.85 m
Cargo Lower Width Opening.....	3.94 ft/1.20 m
Overall Length.....	26.5 ft/8.08 m
Seats.....	1 crew + 6
Doors.....	3
Door Sill Height.....	2.4 ft/0.73 m
Cargo Door (rear).....	2.85 ft/0.87 m
Cockpit Doors (both sides).....	3.6 ft/1.10 m

FLIGHT SURFACES

Wing Area.....	183 ft ² /17.04 m ²
Span.....	45.1 ft/13.75 m
Dihedral.....	2.5°
Flap Type.....	slotted
Horizontal.....	40 ft ² /3.72 m ²
Overall Height.....	10 ft/3.05 m

LANDING GEAR.....fixed, tricycle, non-retractable

Main Gear.....	8.00-6 Semi-cantilever w/ suspension
Nose Gear.....	6.00-6 Shock absorbing w/ damper



Discovery 201

FEATURES:

COCKPIT & CONTROLS:

- 2 Pneumatically assisted passenger/crew doors
- Single or dual flight control wheel(s) and rudder pedals
- Throttle quadrant with propeller and mixture controls
- Rudder and stabilizer trim- electromechanically operated

Environmental Controls:

- Full IFR Glass Cockpit
- Fuel, engine, electrical system caution/warning panel
- Flight control lock
- Electrically heated pitot/static heads

Lighting:

- Cabin area lighting
- Equipment compartment and instrument panel illumination
- Emergency warning, caution lights, & system operation lights
- Landing and taxi lights
- Exterior navigation and position lights

POWER SUPPLY SYSTEM IS COMPOSED OF:

- 2 Engine mounted TCM generators
- 2 Storage batteries
- 2 Voltage regulators
- 1 Plug receptacle for ground power
- Circuit breaker protected electrical buses

SAFETY EQUIPMENT:

- Emergency locator transmitter
- Emergency radio
- First aid kit

CERTIFICATION

Specifications are subject to change by customer request. DISCOVERY-201 is being certified under Part 23 of the Federal Aviation Regulations in the Normal Category for day, night, VFR and IFR flight operations.

DISCOVERY AVIATION--

Delivering tomorrow's utility aircraft today.

AIRCRAFT SPECIFICATION

ADDITIONAL FEATURES:

INTERIOR FEATURES:

- 2 Crew seats with 3-point restraint system and inertial reels
- Up to 5 adult seats with 3-point restraint system & inertial reels
- Cargo hold restraint system with folding shelves that can be positioned behind any passenger row
- All seats meet FAR 23.562 Crashworthiness requirements
- Quick action floor mounting socket system for seats and cargo
- Wall-to-wall carpet or vinyl floor mats
- All cabin interior linings, floor and seat coverings comply with FAR 25 (Transport Category) Flammability requirements
- Reinforced cabin floor section for carrying heavy cargo items

AIRCRAFT CONFIGURATIONS:



Base: Basic passenger version with 6 seats



VIP: Version with improved finish of cabin and additional equipment



Combi: Passenger-cargo version with 4 seats



Combi 2: Passenger-cargo version with 5 seats



Cargo: Cargo version (seat for supervisor)



Farmer: Version for private owners in rural areas



Ambulance: Ambulance version with installation of medical equipment



Laboratory: Version with installation of measuring, testing, audio & video equipment



Parachute: Version for parachuting



Trainer: Training version with twin aircraft controls

CABIN COMFORT SYSTEMS:

- Cockpit and cabin fully insulated for thermal comfort
- Acoustic cockpit and cabin sound proofing
- Cabin ventilation- integrated cabin floor ventilation with two individual vent outlets and booster fan
- Small opening side window on left door for additional ventilation

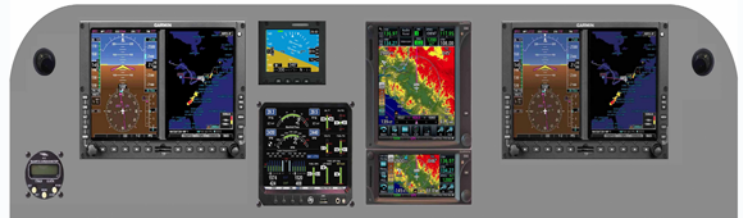
EXTERNAL FEATURES:

- 2 Pneumatically assisted passenger/crew doors
- Wide rear cargo hatch with 2 doors for easy loading/unloading
- Full internal & external anti-corrosion priming of all components prior to assembly
- 3 Tie down points (LH/RH/and tail)
- High mounted tailplane and engines- minimizes damage when operating from gravel strips



NEW AVIONICS SYSTEM FOR DISCOVERY-201

- **Garmin G500 System** Retrofit EFIS system including Primary Flight Display, Multi-Function Display, remote compass, remote air data system, and remote AHRS unit.
- **Garmin GTN 750 System** Garmin Touch Screen WAAS GPS/NAV/COM with glideslope and color moving map. Includes WAAS antenna and data card.
- **Garmin GTN 650 System** Garmin Touch Screen WAAS GPS/NAV/COM with glideslope and color moving map. Includes WAAS antenna and data card.
- **Garmin GMA 35 System** Digital Remote Audio Panel with 6 place Stereo intercom and built in marker beacon receiver.
- **Garmin GTX 33 ES System** Remote Digital Mode S transponder with Extended Squitter & Traffic Information System.
- **Garmin GDL 69A System** Satellite Weather receiver system with satellite audio entertainment system. Includes install kit and GA-55 XM antenna.
- **Comant CI 205-3** Nav Antenna.
- **Comant CI 121** Com Antenna.
- **Comant CI 102** Marker Beacon Antenna.
- **Comant CI 105** Transponder Antenna
- **L3 ESI-2000 Trilogy System** Certified Backup EFIS attitude indicator, airspeed indicator, and altimeter.
- **AuRACLE CRM 2120** (6 CYL) Complete twin engine monitoring system.



ADDITIONAL CAPABILITIES:

The Discovery-201 also offers the following configurations for the aircraft:

- **Amphibious:** the Discovery-201 can be fitted with easy on-off, retractable floats so that the aircraft can take off and land on land and water.
- **Skis:** the Discovery-201 can be fitted with skis that permit flights on snow and land.

The Discovery-201 is a versatile rugged workhorse designed to solve today's challenging access and payload problems.

