High Geo Accuracy meets Operational Economy

- multi sensor capability
- 100-hour maintenance interval
- significantly reduced drag concept
- low operating costs
- piston powered & jet-fueled
- missions up to 8 hours
- “FAILSAFE” carbon fiber airframe
- single lever engine control (EECU)
- Garmin ESP (Electronic Stability & Protection)
DA62 MPP SURVEYSTAR FACTS

**Minimum Operation Speed**

76 KIAS  
140 km/h

**Maximum Cruise Speed (14,000 ft, MCP)**

192 KTAS  
356 km/h

**Fuel tank capacity**

86 USGal  
326 l

**Certified Service Ceiling**

20,000 ft  
6,096 m

**Take-Off Distance (50 ft obstacle / ISA MSL)**

2,897 ft  
833 m

**Landing Distance**

2,556 ft  
779 m

**Mass & Balance**

**Maximum Take-Off Mass** (restricted overweight operation)

5,071 lbs  
2,300 kg

**Empty Mass**

3,803 lbs  
1,725 kg

**Payload for Crew and Fuel**

1,268 lbs  
575 kg

**LARGE ELEVATOR TIPS**

To increase yaw stability for precision flights

- Garmin GCU 476 Keypad
- Garmin Flight Stream 510
- Garmin GTX345R ADS-B in / out XPDR
- GWX70 Weather Radar
- WX 500 Stormscope
- Avidyne TAS 605 Traffic Advisory System
- Garmin GSR 56 Satellite Communication System
- Air conditioning / RACC system
- TKS anti-icing system
- Digital standby attitude module (MD-302 SAM)

**AIRBORNE LASER SCANNER**

**System RIEGL VQ-780 II**

- High operating altitude up to 18,500 ft (5,600 m)
- High laser pulse repetition rate up to 2 MHz
- Multiple Turn Around (MTA) up to 35 pulses simultaneously
- Wide scan field of view up to 60°
- Full waveform analysis
- High ranging accuracy 20 mm

**LARGE FORMAT CAMERA**

**VEXCEL ULTRACAM OSPREY 4.1**

- Collects photogrammetry-grade nadir and oblique images simultaneously
- 1.1 Gigapixels every 0.7 seconds
- Fly at sun angles of up to 35-40°
- Multi-directional motion compensation
- 20,544 pixels across track
- Color image size: 12,840 x 8,760 pixels

**GYRO STABILIZATION MOUNT**

**SOMAG GSM 4000**

- Drastic movement reduction of the airborne sensor
- Hydraulic gimbal system
- Pitch / Roll stabilization angle up to 8.8°
- Yaw stabilization angle up to 25°

**AUSTRO ENGINE AE330**

- In-house designed turbo diesel engines
- 180 hp per engine
- Fuel grades: Jet-A1, Jet-A, T5-1, JP-8, RT, No.3 Jet
- Ultra low fuel consumption
- 100-hour maintenance interval
- Operating costs: 24 EUR/h
- Safe design MTBF = 110,000 h
- TBO: 1,800 h

**GARMIN G1000 NXi**

- Fully integrated glass cockpit / flight management system
- Synthetic Vision Technology
- GFC 700 Autopilot, incl. YD, IAS, LNAV / VNAV, FD

**FLIGHT ENDURANCE RECORD**

**BY GEOFLY PILOT THOR HAKON SJURSEN**

Equipped in the multi-sensor setup, an endurance of 7:17 hours was achieved with fuel remaining for almost two more hours, resulting in a max total endurance of 8:20 hours + 0:45 hours of reserve.

**Payload examples (RACC not installed)**

- Config #1
  - Riegl VQ-780 II
  - IGI DigICAM-100
  - IGI CCNS-5 FMS
  - Crew 2x85 kg
  - Fuel 86 USgal
  - Hatch Installation
- Config #2
  - Vexcel UC Eagle
  - Somag GCM 4000
  - IGI CCNS-5 FMS
  - Crew 2x85 kg
  - Fuel 82 USgal
  - Hatch Installation
- Config #3
  - Riegl VQ-780 II
  - Vexcel UC Osprey
  - Somag GCM 4000
  - IGI CCNS-5 FMS
  - Crew 2x85 kg
  - Fuel 82 USgal
  - Hatch & Nose Installation
DA62 MPP
Configuration for Geo Survey and Mapping

SENSOR & MOUNT COMBINATIONS

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Sensor</th>
<th>Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leica</td>
<td>DMC III</td>
<td>Leica PAV 100</td>
</tr>
<tr>
<td>Leica</td>
<td>ADS 100</td>
<td>Leica PAV 100</td>
</tr>
<tr>
<td>Leica</td>
<td>ADS 120</td>
<td>Leica PAV 100</td>
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<tr>
<td>Leica</td>
<td>RCD30</td>
<td>Leica PAV 80</td>
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<tr>
<td>Leica</td>
<td>City Mapper II</td>
<td>Leica PAV 100HP</td>
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<tr>
<td>Leica</td>
<td>Terrain Mapper</td>
<td>Leica PAV 100</td>
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<tr>
<td>PhaseOne</td>
<td>PAS880</td>
<td>Somag GSM 4000</td>
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<tr>
<td>Riegl</td>
<td>VQ-1560 I</td>
<td>Somag GSM 4000</td>
</tr>
<tr>
<td>Riegl</td>
<td>VQ-780 II</td>
<td>shock-mounted</td>
</tr>
<tr>
<td>Riegl</td>
<td>VQ-880i</td>
<td>Somag GSM 4000</td>
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<td>Specim</td>
<td>Aisa FENIX</td>
<td>Somag GSM 4000</td>
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<tr>
<td>Vexcel</td>
<td>Eagle</td>
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<td>Condor</td>
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<tr>
<td>Vexcel</td>
<td>Osprey</td>
<td>Somag GSM 4000</td>
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<tr>
<td>Vexcel</td>
<td>UCO 4.1</td>
<td>Somag GSM 4000</td>
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</tbody>
</table>

These combinations are just examples. Other combinations available on request. Some combinations require angular restrictions in the stabilization range.

MISSION PROFILE EXAMPLES

Conditions: • distance home base - area of interest: 50 NM / 93 km • transition flight in operating altitude MSL • no turns between flight lines included • 30 minutes final reserve • full fuel 86 USgal • 2-man crew

<table>
<thead>
<tr>
<th>Examples</th>
<th>High Resolution</th>
<th>Standard Resolution</th>
<th>Large Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>City &amp; architecture modeling, power lines &amp; corridor mapping, precision monitoring programs</td>
<td>Cadastral, agricultural &amp; forestry mapping, Small &amp; medium area content programs</td>
<td>Wide-area mapping and content programs, Remote area data spatial data collection</td>
</tr>
<tr>
<td>Operation Speed (KTAS ≈ GS)</td>
<td>117 KTAS / 60 m/s</td>
<td>146 KTAS / 75 m/s</td>
<td>162 KTAS / 83 m/s</td>
</tr>
<tr>
<td>Altitude MSL</td>
<td>2,000 ft / 610 m</td>
<td>8,000 ft / 2,438 m</td>
<td>10,000 ft / 3,048 m</td>
</tr>
<tr>
<td>Representative GSD</td>
<td>2.5 to 4.5 cm</td>
<td>4.5 to 7.5 cm</td>
<td>7.5 to 12.5 cm</td>
</tr>
<tr>
<td>Representative Point density</td>
<td>20 pts/m² and higher</td>
<td>10 to 20 pts/m²</td>
<td>1 to 10 pts/m²</td>
</tr>
<tr>
<td>Fuel Flow (USGal/h)</td>
<td>9.0 @ 45% power</td>
<td>11.8 @ 60% power</td>
<td>14.8 @ 75% power</td>
</tr>
<tr>
<td>Total Flight Time</td>
<td>8.8 h</td>
<td>7.0 h</td>
<td>5.7 h</td>
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<tr>
<td>Survey Time Available</td>
<td>8.1 h</td>
<td>6.2 h</td>
<td>5.0 h</td>
</tr>
<tr>
<td>Possible Line Length per Flight</td>
<td>1,760 km / 950 NM</td>
<td>1,681 km / 908 NM</td>
<td>1,488 km / 803 NM</td>
</tr>
</tbody>
</table>

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