Aerial

DigitalGlobe delivers geospatial content the way users want it, providing a clear and accurate visual perspective for nearly any geospatial application.

Precision Aerial

Precision Aerial is delivering the industry’s first high-quality, wall-to-wall collection of 30 cm natural color (RGB) and 60 cm color infrared (CIR) aerial orthomosaics covering the contiguous United States and Western Europe. Through agreements with Microsoft, premium quality imagery is being acquired exclusively with the UltraCamG digital imaging technology to provide comprehensive coverage with industry-leading accuracy, quality and aesthetics.

**BENEFITS**

**Easy to Procure**
Comprehensive aerial coverage with scheduled refreshes make DigitalGlobe the single source solution. There is no longer a need for multiple contracts with individual providers; now DigitalGlobe simplifies procurement and saves users time and money.

**Application Ready**
Unlike aggregated aerial imagery, Precision Aerial imagery is collected using a common sensor and platform at a uniform resolution with standard specifications. This gives users consistent country-wide/region-wide coverage making for easier integration and analysis.

**Faster Delivery/Lower Cost**
An elaborate collection plan ensures that Precision Aerial imagery will be ready and waiting. Order select areas or subscribe to the entire collection. Now users can get the imagery they need, when they need it, at a price they can afford.

**Reliable Quality**
Precision Aerial relies on the proven UltraCamG digital imaging technology from Vexcel. The UltraCamG imaging system is specifically designed for collecting large image swaths with the highest consistency, accuracy and aesthetic quality.

**COVERAGE**

Initial coverage of the U.S. and Western Europe (over 10 million km²) will be completed by mid 2012. An additional 6 million km² of refreshed coverage will be acquired in the following 30 months.

- The entire lower 48 US States, as well as the Alaskan cities of Anchorage, Fairbanks and Juneau.
- United Kingdom, France, Germany, Italy, Spain, Portugal, Austria, Switzerland, Ireland, Belgium, The Netherlands, Luxembourg, and Denmark, as well as additional opportunity in Finland, Norway and Sweden.
## Specifications

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<tr>
<td><strong>Product Options</strong></td>
<td>Natural Color</td>
<td>Color Infrared</td>
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<tr>
<td>Resolution</td>
<td>30 cm</td>
<td>60 cm</td>
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<tr>
<td>Bit Depth</td>
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<td>Seamless Color Balanced Mosaics</td>
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<td>Projections and Datums</td>
<td>UTM WGS84</td>
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<tr>
<td>Tiling</td>
<td>25k x 25k pixels</td>
<td>12.5k x 12.5k pixels</td>
<td></td>
</tr>
</tbody>
</table>

### Product Specifications

- **Area**: Defined by Market
  - Circular Error 90% confidence (CE90): 2.7 m, 4.0 m, 5.3 m
  - Radial Accuracy 95% confidence (NSSDA): 10 ft, 15 ft, 20 ft
  - Equivalent RMSE in X and Y: 4 ft, 6 ft, 8 ft
  - Cloud Cover: 0, 0, < 1%
  - Cloud Shadows and Haze: 0, < 2%, < 3%*
  - Smoke and Pollution: 0, 0, < 1%*
  - Minimum Sun Angle: 30°, 20°, 20°
  - Standing Water (flood, rain): no, no, < 1%
  - Snow and Ice: Permanent snow only, Above timber line, < 3%**
  - Leaf-Off: Required in US, Desired in US, NA

*Details will be clearly visible  **Exceptions for ski areas, etc. by review* 

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**Collection**

Precision Aerial imagery is collected in 1 degree by 1 degree (~ 10,000 km²) in a grid pattern for complete country coverage, with priority placed on highly populated areas. High Value Areas will also be collected and processed contiguously to create individual markets of the highest quality.

**Deliverables**

High Value Areas and 1 degree blocks will be delivered to customers in their entirety, including metadata.

**Delivery Methods**

- **Media Delivery**: External Hard Drive
- **Web-Based Delivery**: FTP

**Cloud Services**

**Product Options**

- Natural Color
- Color Infrared

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