

Precision Aerial

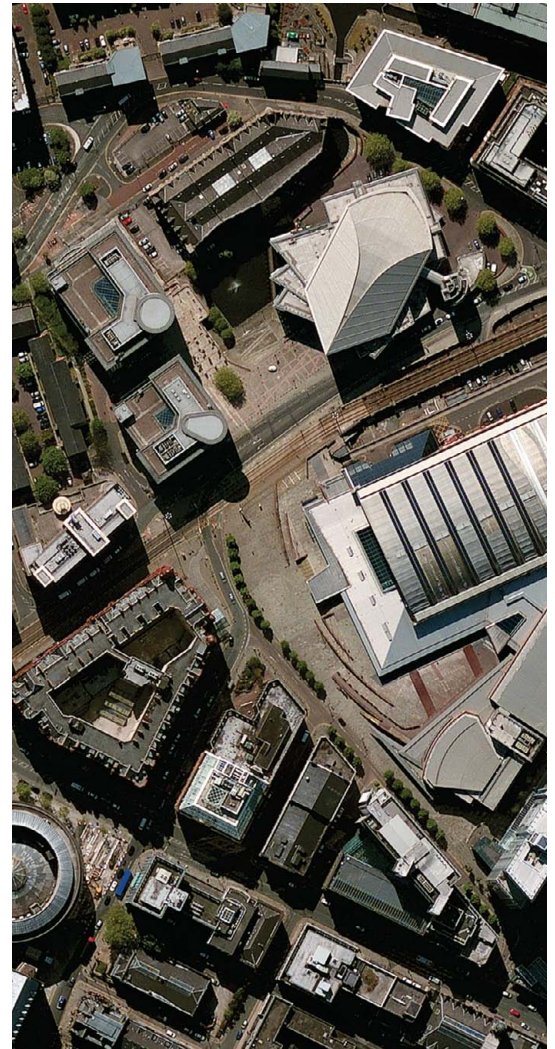
Precision Aerial delivers the industry's first high-quality, wall-to-wall collection of 30 cm natural color (RGB) and 60 cm color infrared (CIR) aerial orthomosaics covering the contiguous United States and Western Europe; 15 cm natural color and 30 cm (CIR) in Germany. Through agreements with Microsoft™, premium quality imagery is being acquired exclusively with UltraCamG® digital imaging technology to provide comprehensive coverage with industry-leading accuracy, quality and aesthetics.

Features

- Collected in 1 degree by 1 degree blocks (~10,000 km²) in a grid pattern for complete country coverage. High value urban areas are collected and processed contiguously to ensure high quality within densely populated areas.
- Comprehensive, wall-to-wall collection of orthomosaics at 30 cm natural color and 60 cm color infrared. A committed refresh schedule of the contiguous United States and Western Europe ensures up-to-date premium quality imagery.
- Optimized on a single standard and is application ready. Using standard format, common platform, uniform resolution, and single sensor contribute to providing a consistent mosaic that will easily mesh with other datasets.

Benefits

- Industry-leading planimetric, best-in-class accuracy. Leverages proven UltraCamG® digital imaging technology, specifically designed for collecting large image swaths with the highest consistency, accuracy and aesthetic quality. Cities are free of clouds, cloud shadows, haze, fog, pollution, and snow. Rural areas have less than 1% cloud cover.
- Complete coverage means fast delivery at a lower cost, with no aggregation, no hassles, and no missing data. Users get the imagery they need, when they need it, at an affordable price.
- Unlike aggregated aerial imagery, Precision Aerial imagery is collected using a common sensor and platform at a uniform resolution with standard specifications. This provides consistent country/regional coverage, making easier integration and analysis possible.



Manchester, United Kingdom
Collected April 22, 2011

Precision Aerial

Coverage

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

Specifications

| Parameters | | |
|------------------------------------|------------------|----------------------|
| Product Options | Natural Color | Color Infrared |
| Resolution | 30 cm | 60 cm |
| Bit Depth | 8 bit | |
| File Format | GeoTIFF | |
| Seamless Color Balanced Mosaics | Yes | |
| Projections and Datums | UTM WGS84 | |
| Tiling | 25k x 25k pixels | 12.5k x 12.5k pixels |

| Product Specifications | | | |
|--|------------------------|--------------------------------------|--------------------------------------|
| | High Value Areas | Standard Blocks | Remote Blocks |
| Area | Defined by Market | 1° cells ~ 10,000 km ² | 1° cells ~ 10,000 km ² |
| 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

All imagery complies with U.S. regulation.

Deliverables

High value areas and 1 degree blocks will be delivered to customers in their entirety, including metadata. Order select areas or subscribe to the entire collection.

Delivery Methods



Media Delivery: External HD



Web-Based Delivery: FTP



Cloud Services

Product Options



Natural Color



Color Infrared