

Precision Aerial



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 Precision Aerial the single source solution. There is no longer a need for multiple contracts with individual providers; now Precision Aerial simplifies procurement and saves users time and money.

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.

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.

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.

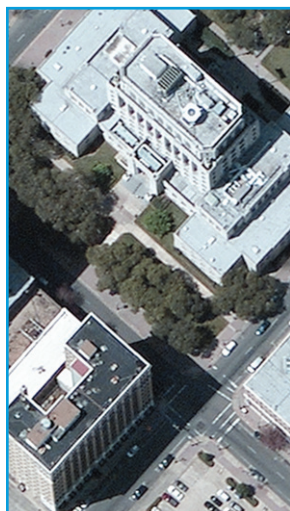
COVERAGE

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.

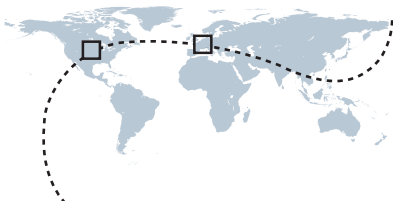


The entire lower 48 US States, as well as the Alaskan cities of Anchorage, Fairbanks and Juneau.

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.



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



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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

COLLECTION

Precision Aerial imagery is collected in 1 degree by 1 degree blocks (~ 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

DIGITALGLOBE®

LANDinfo
WORLDWIDE MAPPING LLC