



SKYSAT SOLUTIONS OVERVIEW

Planet's SkySat constellation powers the most transparent, scalable platform for high-resolution, high-revisit satellite imagery available. Organizations who need real-time, accurate views of rapidly changing ground conditions gain intelligence and visibility on their own terms.

Planet's 21 SkySats can revisit any point on Earth an average 5-10 times per day at 50 cm spatial resolution, a higher frequency than any other commercial satellite imagery provider. Organizations can acquire imagery on-the-fly, levelling the playing field for capturing insights over hot spots and remote geographies.

SOLUTIONS



Tasking

Accelerate decision cycles with flexible (on-the-fly) collections over your areas of interest

Areas will be tasked until cloud cover requirements are met or program duration ends



Archive

Access to the full SkySat archive – 10M+ square kilometers captured since 2014

Archive imagery available for online viewing in Planet Explorer



Basemaps

Complete, seamless, and precise mosaics built with high-resolution, sub-daily imagery over your area and time of interest

Basemaps are custom built to your needs

ADVANTAGES



Very high resolution

Discriminate ultra-fine details with 50 cm spatial resolution imagery to gain the best analytical context for decisions



Tip and cue

Integrate Planet's always-on, PlanetScope Monitoring for reliable, broad context to efficiently gauge needs for high-resolution imagery



Rapid delivery

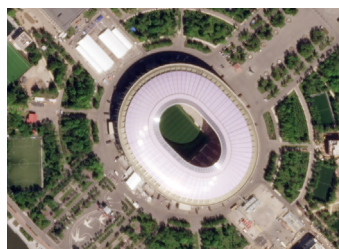
Act on information quickly with publication times offered up to 3 hours from capture



Stereo and video collection

Utilize a variety of formats to satisfy novel use cases like volumetric analysis and 3D reconstruction

COLLECTION TYPES



Standard

Point and strip up to 500 sq km



Stereo Pairs

Multiple collections for 3D modelling



Video

Pan video up to 120 seconds

IMAGERY PRODUCT SPECIFICATIONS

| | Basic Scene | | Ortho Scene & SkySat Collect | | |
|------------------------|---|------------------------|--|----------------------|----------------------|
| Ground sample distance | Panchromatic: 0.65-0.86 m Multispectral: 0.81-1.00 m | | Panchromatic: 0.80 m Multispectral: 0.50 m | | |
| Pixel Resolution | N/A | | Analytic, Analytic DN, Panchromatic DN, Visual, Pansharpened Multispectral: 0.50 m | | |
| Spectral Bands | Blue: 450 - 515 nm | Green: 515 - 595 nm | Red: 605 - 695 nm | NIR: 740 - 900 nm | Pan: 450 - 900 nm |
| Bit depth | 16-bit | | Analytic DN; Analytic; Panchromatic DN; Pansharpened Multispectral: 16-bit | | |
| | | | Visual: 8-bit Unsigned Integer | | |
| Geometric precision | < 50 m RMSE | | < 10 m RMSE | | |
| File structure | Image File – GeoTIFF format Metadata File – JSON format Rational Polynomial Coefficients – Text File (Basic only) UDM File – GeoTIFF format | | | | |
| Radiometric conversion | Analytic product - Absolute Radiance derived using vicarious calibration methods. Radiometrically calibrated to radiance units and scaled by 100 to reduce quantization errors | | | | |
| Revisit time | Nadir: 28 days per spacecraft; sub-weekly per constellation Off-Nadir: sub-weekly per spacecraft; intra-daily per constellation | | | | |

LET'S TALK

We're Here to Help!

Get support for Planet Tasking
support@planet.com

Contact Us

Learn how Planet can help you
turn data to actionable insights
go.planet.com/getintouch

Learn More

www.planet.com