

Stereo helps you rapidly build 3D products and keep them updated without imaging delays or high costs. Assess buildings, landscapes and work sites and regularly update 3D models as situations change.

Benefits of stereo

Gain situational awareness of your area of interest while leveraging BlackSky's rapid collection capability.

- Task imagery using secure web portal or API connection
- Use BlackSky stereo data to build your own digital surface models (DSMs) or digital terrain models (DTMs) of uniform or complex terrain
- Collect as often as needed to meet situational awareness needs
- Create a common operating picture
- Conduct accurate volumetric analysis
- Plan disaster response

Get stereo in traditional pairs

2-frame stereo is a pair of images of the same target taken from different viewing angles by the same spacecraft in a single pass. This product is best for rapid 3D visualization or digital elevation model (DEM) generation over uniform terrain.

Task five frames for complex terrain

5-frame stereo is five images of the same target taken from different viewing angles by the same spacecraft in a single pass. This product is best for high-quality DEM generation where multiple look angles are required such as urban areas, construction sites and commodity stockpiles.

STEREO SPECIFICATIONS

Build and update your own 3D products.



Derna, Libya

An urban area such as the flooded city of Derna is best imaged in 5-frame stereo.

	2-frame stereo	5-frame stereo
Collection to delivery	90 minutes ¹	
Revisit	60 minutes ¹	
Number of frames	2	5
Convergence angle range between first and last images	10° to 50°	12° to 50°
Best Ground Sample Distance (GSD) at nadir	83 cm	
Estimated NIIRS (eNIIRS) image quality class	eNIIRS 4.0, eNIIRS 3.5	
Minimum scene size	24 km ² (4 x 6 km)	
Spectral bands	RGB, Panchromatic	
Geolocation accuracy	< 10 m CE90 in Australia, United States < 20 m CE90 rest of world	
File formats	GeoTIFF, NITF 2.1	
Processing level	Non-ortho	
Available in Archive	Yes	

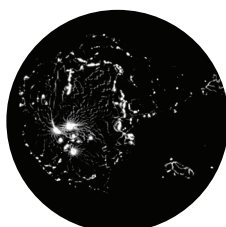
¹ Timelines are subject to change and vary by customer and architecture.

Explore BlackSky products



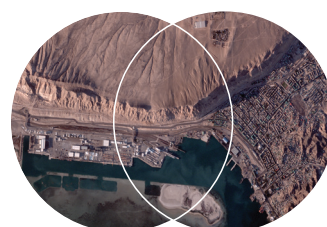
Daytime

Get insights in time to decide



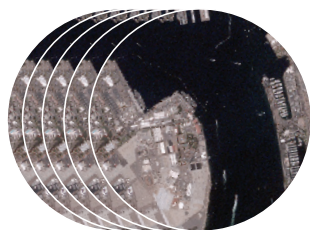
Nighttime

See activity after dark



Area 2x1

See larger areas



Burst

Analyze motion



Detect

Automatically understand objects

To learn more about how BlackSky can help your organization, contact sales@blacksky.com or visit blacksky.com.

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