## WorldView-3 Imagery for Exploration and Mining



## **Technical Specifications**

Swath Width	At nadir: 13.1 k	m			
Revisit Frequency (at 40°N Latitude)	1 m GSD: <1.0 4.5 days at 20°	day off-nadir or less			
Orbit	Altitude: 617 km Type: Sun-synchronous, 10:30 am local time Period: 97 minutes for Earth orbit				
Geolocation Accuracy	Predicted <3.5 m CE90 without ground control				
Dynamic Range	11-bits per pixel Pan and MS; 16-bits per pixel SWIR				
Sensor Bands	Panchromatic: 450 - 800 nm				
Sensor Resolution (Ground Sample Distance)  Panchromatic Nadir: 20° Off-Nadir: 0.36 m Multispectral Nadir: 20° Off-Nadir: 1.24 m 3.70 m 3.70 m 20° Off-Nadir: 3.82 m CAVIS Nadir: 30.00 m	8 Visible and N Coastal: Blue: Green: Yellow: 8 SWIR Bands: SWIR-1: SWIR-2: SWIR-3: SWIR-4: 12 Atmospheri Desert Clouds: Aerosol-1: Green: Aerosol-2: Water-1:		Red: Red Edge: Near-IR1: Near-IR2: SWIR-5: SWIR-6: SWIR-7: SWIR-8: Water-3: NDVI-SWIR: Cirrus: Snow: Aerosol-1:	626 - 696 nm 698 - 749 nm 765 - 899 nm 857 - 1039 nm 2137 - 2191 nm 2174 - 2232 nm 2228 - 2292 nm 2285 - 2373 nm 930 - 965 nm 1220 - 1252 nm 1365 - 1405 nm 1620 - 1680 nm 2105 - 2245 nm	

## **Processing and Products**

Water-2:

» Geoscientific image products are generated to enhance and discriminate geology, lithology and alteration plus advanced multivariate and spectral unmixing processing techniques are used to target a variety of ore deposit lithologic and alteration styles

897 - 927 nm

Aerosol-2:

2105 - 2245 nm

- » Basic raw imagery data is corrected for radiometric response between detectors, optical sensor corrections and geometric resampling
- » Atmospheric bands are used to measure atmosphere properties including cloud, aerosol, water vapor, ice and snow to correct imagery for atmospheric effects
- » Environmental products are designed to support Environmental Impact Assessments, Environmental Management Plans and related ecological, land use and change assessments

## **Ordering and Deliverables**

Imagery is ordered by the square kilometer with a minimum purchase of 100 sq km per order. Products are delivered by secure ftp and digital media in a variety of geocoded formats compatible with leading commercial GIS and image processing software. All projects include reporting to document the project and all deliverables. Contact Exploration Mapping Group to search the archive or task the satellite with a new collection request for your area of interest.



