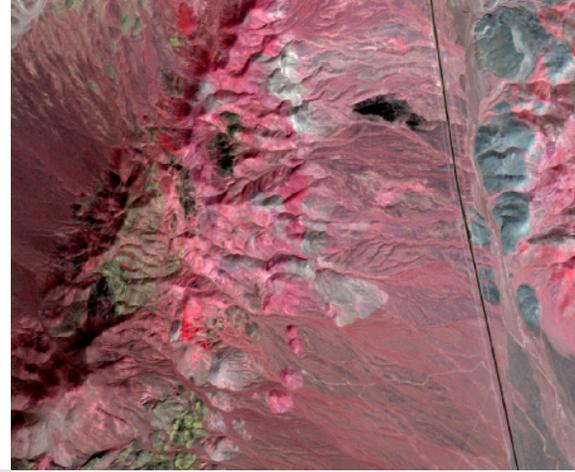




SHORT-WAVE INFRARED IMAGERY

 DATA SHEET



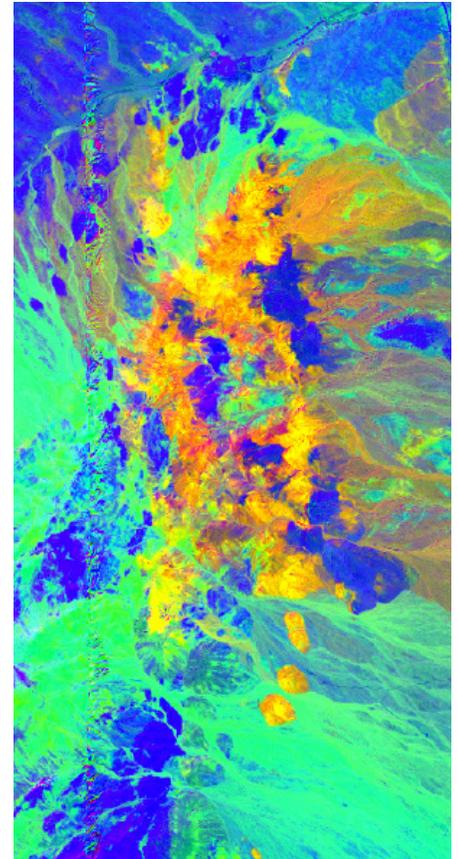
Short-Wave Infrared Imagery

In addition to offering the highest resolution satellite imagery available today, WorldView-3 is the first commercial satellite to have eight high-resolution bands that capture information in the short-wave infrared (SWIR) regions of the electromagnetic spectrum. WorldView-3 expands deeper into the infrared spectrum than any other commercial imaging satellite and provides rich data for precisely identifying and characterizing man-made and natural material, penetrating smoke and mapping minerals. The eight SWIR bands capture unique information for agriculture, forestry, mining/geology and other applications.

Features and benefits

- High-resolution
 - 3.7 m
- Spectral diversity
 - 8 Bands of SWIR information
 - 1100-2400 nm
- High radiometric response
 - 14-bit digitization (up to 16,384 levels of gray scale)
 - Discrete non-overlapping bands
- Open systems
 - Camera model information supplied
 - Compatible with leading commercial software providers
 - Popular image file formats
- Spacecraft telemetry and camera model supplied with satellite imagery
- Identify features and perform analysis that have not been possible before
- Band optimized for the detection of features of greatest interest
- Ideal for penetrating smoke, mapping minerals and identifying man-made features

FALSE-COLOR SWIR IMAGE



MAXAR

Specifications

PRODUCT OPTIONS		
	Pixel resolution*	Image bands
SWIR	3.7 m	SWIR 1, SWIR 2, SWIR 3, SWIR 4, SWIR 5, SWIR 6 SWIR 7, SWIR 8
SPECTRAL CHARACTERISTICS		
SWIR 1	1195-1225 nm	
SWIR 2	1550-1590 nm	
SWIR 3	1640-1680 nm	
SWIR 4	1710-1750 nm	
SWIR 5	2145-2185 nm	
SWIR 6	2185-2225 nm	
SWIR 7	2235-2285 nm	
SWIR 8	2295-2365 nm	
SCENE SIZE		
At nadir	10.6 km cross-track	
IMAGE ACCURACY SPECIFICATIONS		
WorldView-3 SWIR	7.5 m CE90	
ORDER PARAMETERS		
WorldView-3 SWIR	7.5 m CE90	
Image bits/pixel	8 or 16 bits (16-bit data is strongly recommended)	
File format	GeoTIFF, NITF	
PROCESSING		
Radiometric corrections	Sensor Corrections	Resampling Options
-Relative radiometric response between detectors -Non-response detector fill -Conversion to absolute radiometry	-Internal detector geometry -Optical distortion -Scan distortion -Any line-rate variations	-2x2 bilinear -Nearest neighbor -4x4 cubic convolution

*Spectral response curves available upon request

DELIVERABLES

Acquire SWIR imagery directly from the archive or through a new collection request. SWIR imagery is ordered by the scene, with a minimum purchase of a single scene up to a maximum of 10,000 sq km per order. Products are delivered on a choice of standard digital media with all the Image Support Data files needed for processing, including attitude and ephemeris data, geometric calibration, camera model, image metadata and radiometric data.

FALSE-COLOR SWIR IMAGE

