

European Space Imaging

14EUSI-1961 Urban Atlas Data Coverage with WorldView-2 Data

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Document Signature

	Affiliation/Function	Name	Date	Signature
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1. Introduction

European Space Imaging GmbH as so called Third Party mission processed and delivered VHR satellite imagery collected by WorldView-2 during February 2011 to October 2013. All products delivered are related to complete ESA's EO missions for the coverage of the Urban Areas in Europe which has been defined as the Urban Atlas.

2. Coverage of the Large Urban Zones (LUZ)





3. Product Parameter for LUZ

Product & License

Product	40cm Ortho Ready Standard 8-Band Bundle; as per product specifications in Chapter 4	
Parameter	 GEOTIFF 16 Bit DRA = OFF WGS 84 UTM 4 x 4 Cubic Convolution 16k Tiling 	
Product Replacement	In case of any defective product delivered against the Urban Atlas European Space Imaging will replace an equivalent product if necessary until the end of Quarter 1, 2015.	
License	Enterprise License for Earthnet/TPM global incl. DUE, VAE, TEP, etc. as per https://earth.esa.int/pi/esa?type=file&table=aotarget&cmd=image&alias=TPMterms.	

Order Parameter

Requested Order Type	Archive
Sensor	WorldView-2
Bands	8 Bands (MS) + Pan
Resolution	40cm Pan, 1.6m MS
Area of Interest	290 of the 305 Urban Atlas Zones 2010+ 5 Urban Atlas Zones
	over Croatia
Size of Area of Interest	537.502 km ²
Collection Timeframe	February 2011 – October 2013



4. Product Specifications

Physical Characteristics - Standard and Ortho Ready Standard Imagery				
Minimum orderable	25 km2 (ImageLibrary); new collection subject to			
area	minimum price for tasking level selected, not less than			
	25 km ₂			
Product Framing	Area- based			
Processing Specifications				
Absolute geolocation	Geolocation accuracy specification of 5 m CE90 (WV-1,			
accuracy	WV-2) or 23 m CE90 (QB) at less than 30° off-nadir,			
	excluding terrain effects.			
Geometric corrections	Spacecraft orbit position and attitude uncertainty; Earth			
applied	rotation; Earth curvature; panoramic distortion; terrain			
Geolocation	Enhomeric and attitude: rotation and alignment to man			
information annlied	projection			
Applied terrain	Average base elevation or customer specified elevation			
information	(Ortho Ready Standard): coarse DEM (Standard)			
	Product Parameters			
Product Options	Pan, 4-band, 8-band, pan + 4-band bundle, pan + 8-			
•	band bundle Natural Color, Color Infrared, 4-band Pan-			
	Sharpened			
Number of bits per	8 or 16			
pixel in delivered				
product				
Digital scaling method	Linear with maximum value set to 255 (if highest DN is			
(applies to 8 bit only)	<= 255, no scaling is applied)			
Resampling option	4x4 cubic convolution, Nearest neighbor, MTF kernel,			
Dumanula Damas	Enhanced Kernel, Pan-sharpening			
Dynamic Range	Color correction and contrast enhancement (8-bit only)			
Adjustment (DRA)				
Output tile size ontions	None: 8k v 8k nivels: 14k v14k: 16k v 16k nivels: Man-			
	hased			
Output pixel spacing	Pan: 40 cm. 50 cm. 60 cm. 2 m			
	Pan-sharpened: 40 cm, 50 cm or 60 cm			
	Multispectral: 1.6 m, 2.0 m or 2.4 m			
Output alignment	Rotated to Map North up			
Cloud Cover	0-15% default, other options available upon request			
Delivery Parameters				
Output product	FTP Pull, DVD, External Hard Drive			
delivery media options				
Image data format	NITF 2.0; NITF 2.1; GeoTIFF 1.0			
options				
Image Support Data				
ISU files supplied to	Delivery (top level index) README file; Layout file,			
customer	snapellies, browse image, Product READIVIE, Image			
Spacecraft telemetry	Refined attitude/enhamoric (used to create the product)			
Spacecrait telemetry	Renneu autuue/epnemens (useu to create the product)			