HEXAGON

Data Sheet

Content Program

Metro HD Aerial Mesh

Products	
Feature Characteristics	Aerial mesh data is derived from concurrently acquired imagery and LiDAR to create a virtual representation of the real world. A mesh of triangles represents the surface of all natural and built-up objects within the imaged scene. Aerial mesh texture is achieved by assigning 2D RGB image data for each corresponding triangle that forms the 3D Mesh.
Resolution	5 cm (2 in) nadir aerial imagery - concurrently acquired oblique imagery 20 ppm^2 concurrently acquired LiDAR
Accuracy	RMSE xyz = 30 cm All accuracy specifications are based on flat, open terrain. Areas considered to be known limitations of the processing and artifacts are excluded from this definition. This includes areas near roof edges, areas with single-color texture, areas with highly repetitive pattern in texture (e.g. agricultural fields) and thin structures such as wires or cables.

Delivery			
	Download	**Web Streaming**	**Custom Order**
Order Area	Custom AOI Shapefile KML Viewport	Licensed by product	Complicated AOIs, orders bigger than online delivery, custom orders required complicated AOIs, orders that exceed online delivery, custom projections or data sets not currently offered on the HxDR application.
Format	OBJ*, OGC 3D Tiles, ESRI Scene Layer Package (SLPK)	OGC 3D Tiles	OBJ, OGC 3D Tiles, ESRI Scene Layer Package (SLPK)
Coordinate Reference System	OGC 3D Tiles - WGS 84 ECEF (EPSG:4978) only OBJ** and SLPK North America: NAD83 (2011) UTM Zone*** <#>, NAVD88 - Geoid 12b, meters Europe: WGS84 (ITRF08 epoch 2005) UTM Zone*** <#>, EGM08, meters	WGS-84 ECEF (EPSG:4978)	OGC 3D Tiles - WGS 84 ECEF (EPSG:4978) only OBJ** and SLPK North America: NAD83 (2011) UTM Zone*** <#>, NAVD88 - Geoid 12b, meters Europe: WGS84 (ITRF08 epoch 2005) UTM Zone*** <#>, EGM08, meters
Delivery Time Frame	Immediate	Immediate upon account activation	1 - 4 weeks based on the order size, specifications and vintage
Minimum Order	Based on web store minimum	Based on web store minimum	Please inquire with sales.

*OBJ delivery is a target/tile-based structure with multiple levels of detail (LODs)

**OBJ by default downloads in a local coordinate system and can be transformed to geospatial coordinates using the accompanying manifest.json file

***Native UTM zone is the UTM majority zone used for processing the data

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