HxGN Content Program

Aerial Mesh

Resolution (3D models based on)

- 5.0 cm (2 in) nadir aerial imagery
- Concurrently acquired oblique imagery
- 20 ppm² LiDAR

Accuracy

- RMSEx: 2x nominal RMSE$_x$ accuracy of aerial imagery data* (15 cm)
- RMSEy: 2x nominal RMSE$_y$ accuracy of aerial imagery data* (15 cm)
- RMSEz: 3x nominal RMSE$_z$ accuracy of lidar data* (10 cm)

Delivery

Method	Webstore Download	Web Streaming (in development)	Custom Order
Protocols	N/A	OGC 3d Tiles	N/A
Order Area	Custom drawn Viewport AOI Shapefile - KML	Licensed by zone	Complicated AOIs Orders bigger than online delivery Custom projections/formats
Format	OBJ	OGC 3d Tiles	OBJ OGC 3d Tiles ESRI Scene Layer Package (SLPK)
Coordinate Reference System	WGS84 – UTM Zone (#) (native & adjacent zones)	WGS-84 ECEF (EPSG:4978)	Coordinate reference systems available upon request
Delivery Time Frame	Immediate	Immediate	1 to 4 weeks based on the specifications, order size and vintage
Minimum Order	Based on web store minimum	Single user license	Minimum may apply
Comments	Native UTM Zone is the UTM majority zone used for processing the data Delivery is a target/tile based structure with multiple levels of details (LODs) Download in local coordinates can be transformed to geospatial using included manifest.json metadata file in respective software package		Delivery is a target/tile based structure in the requested format

On open and flat surfaces only. Areas considered to be known limitations of the processing and artifacts are excluded from this definition. This includes cases such as 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.