Advanced Elevation Series (AES)

From city planning to flood mapping, many industries require high-resolution elevation models to complete projects. Maxar’s Advanced Elevation Series offers full-service semi-customized terrain products and produces high-accuracy Digital Surface Models and Digital Terrain Models that serve as key building blocks for successful exploration, engineering, land management and simulation. The Advanced Elevation Series provides global access to customized models delivered directly to your desktops with numerous product configuration options for accuracy, resolution, type and format.

Features and benefits

Focus on core business functions
- Advanced Elevation Series does not require specialized hardware, software, or staffing expertise to create and process elevation models, which creates more time to focus on core business functions.

Global access
- Access global elevation data without local challenges, such as needing permission to gain in-country presence. Maxar’s global reach enables more efficient mapping of areas where getting a plane in the air or a team on the ground is too costly, time consuming, or unsafe.

One-stop shop
- Bundling Maxar’s Advanced Ortho imagery with the Advanced Elevation Series provides users with uniformity in quality and accuracy, and reduces vendor management costs.

Optional processing
- A number of additional processing options to enhance the Advanced Elevation Series. Whether the project involves hydro-enforcement, roadflattening, contours, or shaded relief, advance your workflow with advanced processing as needed.
Vertical accuracies are based on low slope (0-20 percent) unobscured areas. For medium relief areas (20-40 percent slope), the vertical values can be scaled by 1.5. For high relief areas (greater than 40 percent slope), the values above can be scaled by 2. Up to 50 percent of the area of interest can be designated as ‘Obscured Areas’. Obscured Areas are processed using a best-effort methodology and may not meet designated accuracy. For DTM, dense vegetation is the largest contributor to the Obscured Areas.

The Advanced Elevation Products will only utilize stereo collects with less than 5 percent cloud cover. Turnaround times dependent on image availability.

All imagery complies with U.S. regulation.

### ADVANCED ELEVATION SERIES

<table>
<thead>
<tr>
<th>Product accuracy</th>
<th>8-meter vertical accuracy</th>
<th>4-meter vertical accuracy</th>
<th>2-meter vertical accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Controlled DSM</td>
<td>Controlled DTM</td>
<td>Controlled DTM</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Resolution</th>
<th>8 m, 4 m or 2 m</th>
<th>4 m or 2 m</th>
<th>2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative vertical (LE90)</td>
<td>5 m</td>
<td>2 m</td>
<td>1 m</td>
</tr>
<tr>
<td>Absolute vertical (LE90)</td>
<td>8 m</td>
<td>4 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Relative horizontal (CE90)</td>
<td>8 m</td>
<td>4 m</td>
<td>2 m</td>
</tr>
<tr>
<td>Absolute horizontal (CE90)</td>
<td>10 m</td>
<td>5 m</td>
<td>3 m</td>
</tr>
</tbody>
</table>

### DELIVERABLES
- 32-bit signed floating GeoTiff file
- ISO 19115 metadata
- External HD
- FTP

### OPTIONAL PROCESSING
- Hydro enforcement
- Road flattening
- Contour
- Shaded relief

### MINIMUM SIZE ORDERS:
- 2 m res GSD 100 sq km
- 4 m res GSD 200 sq km
- 8 m res GSD 500 sq km