

# Bentley® Descartes V8i and MicroStation® V8i Raster Manager Functionality Comparison

Functionality	MicroStation V8i Raster Manager	Bentley Descartes V8i
<b>View raster</b>		
- Raster files, WMS server, imager server feed, PDF	✓	✓
- Monochrome, 2 colors, grayscale, 8, 16, 24 and 32 bit color images	✓	✓
- Oracle Spatial Georaster		✓
- Raster DEM with filtering support		✓
<b>On-the-fly coordinate system transformation</b>	✓	✓
<b>Advanced texture and scene creation/editing (e.g. 3D building texture)</b>		✓
<b>Basic raster transformation</b>		
- Align	✓	✓
- Helmert	✓	✓
- Similitude	✓	✓
- Affine	✓	✓
<b>AccuSnap enabled on image borders</b>	✓	✓
<b>Dynamic image clipping</b>	✓	✓
<b>Manipulate as with standard MicroStation selection sets</b>		
- Move, scale, rotate using standard MicroStation tools	✓	✓
- Manipulate rasters and vectors elements in a single operation	✓	✓
<b>ProjectWise® integration</b>	✓	✓
<b>Supported platform</b>		
- MicroStation		✓
- MicroStation PowerDraft®		✓
- Flood		✓
- Combine images		✓
<b>Dynamic snap on raster content (on binary rasters)</b>		
- Active for all MicroStation tools		✓
- Line snap		✓
- Intersection snap		✓
- Outline snap		✓
<b>Raster editing (binary, grayscale, colors...)</b>		
- Touch up (paint, erase, cleanup)		✓
- Local transform		✓
- Crop		✓

Functionality (continued)	MicroStation V8i Raster Manager	Bentley Descartes V8i
<b>Advanced raster transformation (warping, register)</b>		
- Projective		✓
- Thin-Plate Spline (no residual)		✓
- Polynomial 2nd degree		✓
- Polynomial 3rd degree		✓
<b>Raster scene creation (merge tool)</b>		
- Create a new geo-referenced raster in the desired resolution		✓
- Generate a mosaic using the visible rasters within a defined area		✓
- Rasterize elements inside the selected area		✓
- Create multiple outputs based on a user defined grid		✓
<b>Raster to vector conversion</b>		
- Convert line		✓
- Convert all connected lines		✓
- Convert area		✓
- Convert circle		✓
- Convert contours		✓
- Topologically ready line work		✓
- Gap jumping		✓
- Line generalization algorithms		✓
<b>Vector to raster conversion</b>		
- Per element		✓
- Batch process		✓
- Dynamic (automatic vector stamping)		✓
<b>Convert raster text to vector text (ocr)</b>		✓
<b>Cut/copy/paste</b>		
- Via Windows clipboard		✓
<b>Image filtering</b>		
- Contrast stretch, density slicing, blur, sharpen, smooth, detail, edge enhance, find edges, ...		✓
<b>Raster mosaic creation</b>		
- Tone balancing		✓