

BENTLEY[®] DESCARTES V8*i* AND MICROSTATION[®] V8*i* RASTER MANAGER FUNCTIONALITY COMPARISON

FUNCTIONALITY	MicroStation V8 <i>i</i> Raster Manager	Bentley Descartes V8 <i>i</i>
View raster		
- Raster files, WMS server, imager server feed, PDF	✓	✓
- Monochrome, 2 colors, grayscale, 8, 16, 24 and 32 bit color images	✓	✓
On-the-fly coordinate system transformation	✓	✓
Image draping on surface	✓	✓
Basic raster transformation		
- Align	✓	✓
- Helmert	✓	✓
- Similitude	✓	✓
- Affine	✓	✓
AccuSnap enabled on image borders	✓	✓
Dynamic image clipping	✓	✓
Manipulate as with standard MicroStation selection sets		
- Move, scale, rotate using standard MicroStation tools	✓	✓
- Manipulate rasters and vectors elements in a single operation	✓	✓
ProjectWise[®] integration	✓	✓
Supported platform		
- MicroStation		✓
- MicroStation PowerDraft [®]		✓
- Flood		✓
- Combine images		✓
Dynamic snap on raster content (on binary rasters)		
- Active for all MicroStation tools		✓
- Line snap		✓
- Intersection snap		✓
- Outline snap		✓
Raster editing (binary, grayscale, colors...)		
- Touch up (paint, erase, cleanup)		✓
- Local transform		✓
- Crop		✓

FUNCTIONALITY (continued)	MicroStation V8i Raster Manager	Bentley Descartes V8i
Advanced raster transformation (warping, register)		
- Projective		✓
- Thin-Plate Spline (no residual)		✓
- Polynomial 2nd degree		✓
- Polynomial 3rd degree		✓
Raster scene creation (merge tool)		
- 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		✓
Raster to vector conversion		
- Convert line		✓
- Convert all connected lines		✓
- Convert area		✓
- Convert circle		✓
- Convert contours		✓
- Topologically ready line work		✓
- Gap jumping		✓
- Line generalization algorithms		✓
Vector to raster conversion		
- Per element		✓
- Batch process		✓
- Dynamic (automatic vector stamping)		✓
Convert raster text to vector text (OCR)		✓
Cut/copy/paste		
- Via Windows clipboard		✓
Image filtering		
- Contrast stretch, density slicing, blur, sharpen, smooth, detail, edge enhance, find edges, ...		✓
Raster mosaic creation		
- Tone balancing		✓

