

User Friendly			
Customize toolbars and window layouts	✓		
Edit all object properties with the Property Inspector	✓		
Show or hide objects in the Data Manager	✓		
USGS fill patterns	✓		
Align objects	✓		
Pan and zoom realtime	✓	✓	
Create post map when importing data	✓	✓	
Select objects with And/Or criteria	✓	✓	
Export a project in any specified units	✓	✓	
Create custom vector and bitmap fill patterns	✓	✓	
View and/or edit object coordinates in the Coordinate Manager	✓	✓	
Display data associated with an object in the Data Manager	✓	✓	✓
Floating or dockable toolbars	✓	✓	✓
Specify the project scale	✓	✓	✓
Specify the minimum and maximum project limits	✓	✓	✓
Create a project report	✓	✓	✓
Order objects	✓	✓	✓

Calibration			
Load and save calibration points to and from data files	✓		
Calibrate an image by clicking on points in the existing project	✓		
Calibrate with any specified units	✓	✓	✓
Calibrate your project using Cartesian or Projected coordinate space type	✓	✓	✓
Calibrate and georeference a bitmap image	✓	✓	✓
Calibrate a digitizing tablet	✓	✓	✓
Calibrate using linear or logarithmic axes	✓	✓	✓
RMS error report	✓	✓	✓

Digitizing			
Automatically digitize polylines and polygons from an image	✓		
Digitize spline curves and spline areas	✓		
Digitize a wrapped polyline	✓		
Associate up to 256 data attributes for each object	✓		
Choose between different digitizing cursor shapes and colors	✓		
Zoom and scroll while digitizing	✓		
Overlay a georeferenced image with vector, data, or other images	✓	✓	
Display graticule or grid lines	✓	✓	
Digitize onscreen	✓	✓	✓
Add multiple labels per object during or after digitizing.	✓	✓	✓
Digitize circles, rectangles, and annotations	✓	✓	✓
Digitize using a digitizing tablet	✓	✓	✓
Use point or stream mode digitizing	✓	✓	✓
Digitize points, polylines, and polygons	✓	✓	✓
Determine polyline length	✓	✓	✓
Determine polygon perimeter length and area	✓	✓	✓

Layer Manipulation			
Format all active layer objects	✓		
Organize your different layers with the enhanced Layer Manager	✓		
Create up to 255 layers	✓	✓	✓
Move objects between layers	✓	✓	✓
Alter layers to be visible/invisible or locked/unlocked	✓	✓	✓
Add, delete, rename, and replicate layers	✓	✓	✓
Select all items on a particular layer	✓	✓	✓

Projections and Coordinate Systems			
Save and load projection and datum settings to/from a file	✓		
Use one of 29 supported map projections	✓		
Convert the projection or datum of image, vector and data files	✓	✓	
Use one of over 200 supported map datums	✓	✓	✓
Create and save a custom datum	✓	✓	✓
Convert the coordinate system using a math or georeference operation	✓	✓	✓
Map datum transformations include Molodensky, Bursa/Wolfe, and NADCON	✓	✓	✓

Surfer® Compatibility (requires Surfer 7 or higher)			
Create Surfer grid file	✓		
Create Surfer contour, image, or shaded relief map	✓		
Create Surfer base map of single raster object	✓		
Create Surfer base map of multiple objects	✓	✓	✓

Object Editing			
Set individual objects to be visible/invisible	✓		
Rotate vector and text objects	✓		
Convert points to a polyline, or a polyline to points	✓		
Subtract the overlapping portions of selected polygons	✓		
Divide polygons with a polyline	✓		
Create a new polygon that surrounds all selected objects	✓		
Convert a polyline to a polygon with a shared border	✓		
Create points at each intersection of selected polylines/polygons	✓		
Merge overlapping or adjacent polygons together	✓	✓	
Create a polygon from the area intersected by all selected polygons	✓	✓	
Thin and smooth objects	✓	✓	✓
Resample polylines	✓	✓	✓
Snap undershoot polylines or trim overshoot polylines	✓	✓	✓
Remove duplicate objects or remove polyline objects by length	✓	✓	✓
Combine, split, and/or reverse islands and lakes	✓	✓	✓
Break or trim polylines	✓	✓	✓
Create polygons by locator or by ID	✓	✓	✓
Break polylines at intersections	✓	✓	✓
Convert polygons to polylines, or polylines to polygons	✓	✓	✓
Connect polylines together	✓	✓	✓
Snap polyline segments	✓	✓	✓
Reshape objects	✓	✓	✓
Edit the line, symbol, fill, and font properties for objects	✓	✓	✓

Images			
Extract an image region and retain georeference information	✓		
Automatically download and import georeferenced TerraServer topographic maps and aerial photographs	✓		
Import non-georeferenced images and move them in the plot window with the mouse	✓		
Mosaic images	✓		
Change the image size in pixels or resample images	✓		
Replace a selected color on the image with a new color	✓		
Replace an image with another image	✓		
Reduce the number of colors in an image	✓		
Perform image processing on line work (edge detection, image thinning, and image erosion and dilation)	✓		
Change the color format of an image	✓		
Convert an image to black and white	✓		
Make a selected color on the image transparent	✓	✓	
Clip an image to a selected polygon	✓	✓	
Clip the map collar from an image	✓	✓	
Remove the clipping from an image	✓	✓	
Sharpen images, or adjust the brightness, contrast, and saturation	✓	✓	✓
Apply Median or Spatial filters to images	✓	✓	✓
Convert an image to grayscale	✓	✓	✓

GPS digitizing			
Digitize using a GPS unit	✓	✓	
Show all GPS displays and settings	✓	✓	
View the current elevation	✓	✓	
Display the raw data being sent from the GPS or save it to a text file	✓	✓	
Average the data from the GPS over x number of sample points.	✓	✓	
See the current position of the satellites that are being used for a lock	✓	✓	
Set the GPS settings, such as GPS Input Datum	✓	✓	

Import Formats			
Multi-curve LAS, 3D DXF, Surfer GRD, USGS DEM, SDTS DDF, GTopo30 HDR, DTED	✓		
GSI, EMF, XLS, SLK, W??	✓	✓	
TIF, BMP, TGA, PCX, WPG, DCX, EPS, JPG, PCT, PNG, GIF, E00, GSB, BNA, DLG, LGO, LGS, DXF, PLT, BLN, CLP, WMF, SHP, MIG, DDF, DAT, CSV, TXT, Georeferenced images	✓	✓	✓

Export Formats			
Multi-curve LAS, HTM, EPS, PDF, 3D DXF	✓		
Single-curve LAS, GSI	✓	✓	
EMF, GSB, DAT, SHP, BNA, BLN, CGM, MIF, WMF, CLP, TIF, BMP, TGA, PCX, WPG, PNG, JPG, PCT, DCX, GIF, Georeferenced	✓	✓	✓
DAT, BLN, BNA, DXF, BMP, WMF	✓	✓	✓