



... capturing data, producing intelligence

Merge 5.1

Makes mosaics and composite images from raster images

With this software module you can make a mosaic or a composite image from a number of raster images. Merge can handle binary, grayscale and color images. If the input images are geo-referenced, Merge can position the images automatically according to their positions. If they are not geo-referenced, the operator can position the images interactively by rotating, scaling and translating them into place. Scaling and rotation may be done independently along the x- and y-axis. Positioning can easily be done accurately below the pixel accuracy. The new images can be loaded into ProCaptura data capture products or industry standard GIS.

Input:

- ✚ A number of raster images
- ✚ TIFF format
- ✚ Binary, grayscale or color
- ✚ A Merge project file
- ✚ A merged image

Functionality:

- ✚ Load several large raster files (+500 dpi maps) one by one or at once. The images may have different resolution
- ✚ Create and remove layers. Images are loaded onto a layer
- ✚ Set display priority of layers and the images within each layer
- ✚ Set display color for all binary images in a layer
- ✚ If a raster file has been geo-referenced, the transformation (TFW file) may be used to position the image
- ✚ Interactive positioning of each loaded raster file
 - ✘ Move the image (translation). Easily position a picture with pixel accuracy or below
 - ✘ Use common details in the images to position the images
 - ✘ Automatically calculate exact match points based on selected raster objects. More accurate and quicker than interactive positioning

- ✘ Rotate the image interactively or by typing angle. Rotate x- and y-axis independently or equally
- ✘ Scale the image interactively or by typing a scale factor. Scale x- and y-axis independently or equally

- ✚ Create a clip polygon defining the area of the composed image
- ✚ Import a clip polygon for geo-referenced files
- ✚ Optionally make the mask color of input image transparent, e.g. when clipped in GeoRef
- ✚ Handling of multiple large raster images (maps scanned with high resolution +500 dpi)
- ✚ Generate a composite image. Can be done from the application or as a batch process handling a number of images off-line

Output:

- ✚ One raster image composed by a number of raster images. For composite image containing only binary layers, a palette file is generated. The file format is TIFF
- ✚ A Merge project file defining transformations and layer information needed for merging

Platform requirements:

- ✚ Microsoft Windows XP
- ✚ LINUX Red Hat Enterprise 4
- ✚ PC workstation, P4 or similar, + 512MRAM, +40Gbyte disc