

# **VP** map Series

**HYBRID BRIDGE TO GIS & FM**



**Universal Scan-to-GIS desktop**



**Transfer Maps, Plans, Image Data to GIS**



**Exact Georeferencing and Calibration**



**Vectorization and Polygon Conversion**



# VPmap Series

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## Scanning



### Seamless GIS Integration

Large format scanners deliver digital "raster" images in good quality. However, for an effective document transfer to GIS specialized software is indispensable - the perfect solution is VPmap Series.

Georeferencing, image correction, data reduction and interactive or automatic conversion: with VPmap Series you can avoid the tedious procedures associated with traditional digitizing most elegantly and efficiently.

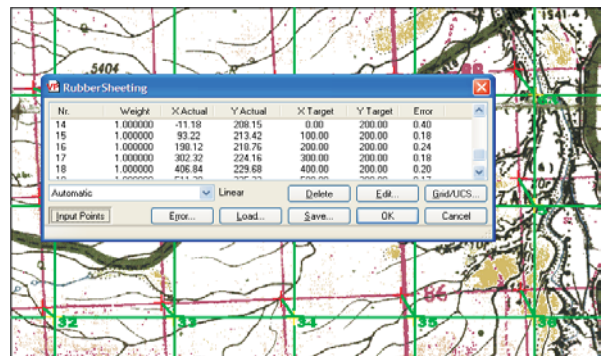
## Merging Maps



### Color Reduction and High Precision Calibration

Without any losses colors and color areas can be combined directly. Also, extract information from colors most rapidly: single colors or color patterns can be separated and exported individually.

Exact and high-speed calibration is essential for digital map processing. VPmap Series offers multiple options for selecting the most suitable method: polynomial or triangular, full manual control or automatic input support, import coordinate values, assign point positions from a reference source or select a map projection.



## Georeferencing



### Georeferencing with GeoTIFF

VPmap Series supports georeferencing options with a full set of GeoTIFF settings. Having defined a coordinate system, map projection, and datum, all objects, raster and vector, will contain accurate placing information on export.

## Managing Colors



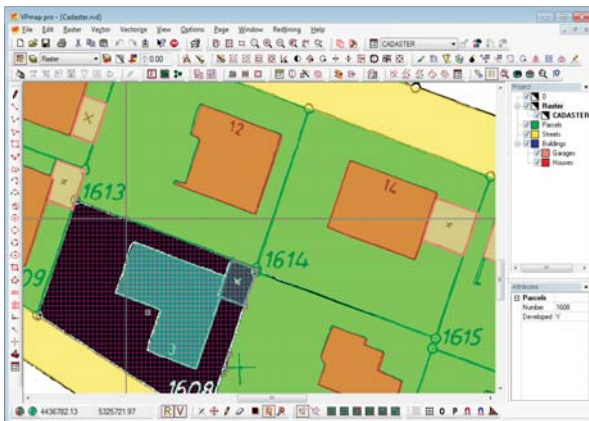
**Paper maps, satellite images, and aerial photography are a major data source for GIS. Fully equipped, easy to use, and independent from any target GIS platform, VPmap Series provides accurate integration, calibration, and conversion of original maps and plans with two product alternatives:**

**VPmap**

**VPmap pro**

## Quick Conversion

A unique set of recognition features assists in digitizing scanned maps, plans or aerial images. Even multi-colored altitude lines will be converted easily into splines and polylines.



Plus, with exceptional recognition methods, area locations convert into polygon objects. A single click is all you need to quickly capture land use, property, building, groundfloor, or room detail features. Any topical information can be recorded conveniently using automatic or manual attribute

assignment. Automatic correction routines are available to match bordering outlines of converted objects.

VPmap pro also includes automatic raster to vector conversion, especially for cadastral or contour maps. Save time and benefit from softelec's internationally reputed vectorization technology.

## Mosaicing

Raster maps can be split into many "tiles" to enable a fast display focused on a region of interest. Or use automatic "Mosaicing" to assign equal and georeferenced tiles across a map or a satellite image.

## GIS and Facility Management Usability

VPmap Series supports the digital integration of maps and plans in all fields, such as infrastructure planning, cadastral records, land development, facility management and others. VPmap Series reduces the efforts of bringing out the information value of legacy documents.

## Vectorization



## Attributes



## Mosaicing



## Export to GIS





### Hybrid Editing ■■

Automatic Raster Cleanup (B/W and Color)  
Exact Multi-Point Rubbersheeting and Georeferencing to Map Projections  
Extensive Raster Merge Functions  
Mosaic Creation  
Raster Structure Improvement: Thinning, Thickening, Open, Close (B/W and Color)  
Scale, Mirror, Rotate, Deskew Raster  
Color Reduction, Color Separation, Color Filter, Conversion to B/W, Classification  
Enhanced Direct Raster Selection (B/W and Color)  
Raster Table Recognition (B/W and Color)

### Interactive Tracing/Line Following ■■

Interactive Tracing of Contours (Lines, Polylines, Splines)  
Automatic Polygon/Polyline creation ("One-Click Area Recognition")  
Trace Objects/Raster Overlay with Color Transparency  
Elevation/Altitude Assignment to Contour Lines

### Automatic Raster-Vector Conversion ■

Centerline, Outline, and Mixed Vectorization (B/W and Color)  
Vectorization Wizard for Easy Settings  
Recognition of: Lines, Circles, Arcs, Ellipses, Hatches, Text (OCR)  
Automatic Layer Classification: Entity/Line Type/ Line Width/Color  
Symbol Recognition

### Attribute Assignment ■■

Interactive and Automatic Assignment of Attributes (e.g. Position, Area, Text, etc.)  
Extensive Attribute Management (SQL based)

### Special Features ■■

Symbol Library Manager  
Intelligent Object Snap (Raster and Vector)  
Rasterizing of Vector Entities  
Hybrid Printing/Plotting  
Customizable User Commands  
Batch Processing

### Scanner Interfacing ■■

TWAIN Support for Generic Scanners  
Direct Large Format Scanner Interface (Colortrac, Contex, GTCO, Océ, Vidar, Xerox)

### Import Formats<sup>1</sup> ■■

**Raster:** TIF (Uncompressed, Group 3, Group 4, LZW, Packbits), GeoTIFF, PDF, MrSID, ECW/ERS (ER Mapper), JPG, JPEG 2000, EDMICS, CALS Group 4, IG4/IGS/RLC (Image Systems), Intergraph Raster, PCX, DCX, BMP, GIF, PNG, TGA, G3/G4/RNL (GTX), Sun Raster, BIL (GeoSpot), GIS/LAN (ERDAS), GOE (NOAA/NEDIS GOES), Core IDC, VIF, Landsat/NLAPS FAST-7

**Vector:** DXF, DWG, DGN, HPGL/2

**Hybrid:** RVD (softelec format), RasterDWG, CGM; PDF (limited)

**GIS:** RVD (softelec format), SHP/E00/GEN (ESRI), MIF/MID (MapInfo)

### Export Formats<sup>1</sup> ■■

**Raster:** TIF (Uncompressed, Group 3, Group 4, LZW, Packbits), GeoTIFF, PCX, PDF, PDF/A, PNG, JPG, BMP, GIF, EDMICS, CALS Group 4, Intergraph Raster, IGS/RLC (Image Systems)

**Vector:** DXF, DWG, IGES, DGN

**Hybrid:** RVD (softelec format), RasterDWG, CGM, PDF, PDF/A, SVG

**GIS:** RVD (softelec format), DXF/DWG (AutoCAD Map 3D), SHP/AEP (ESRI), MIF/MID (MapInfo)

### Operating System Environment<sup>1</sup> ■■

Windows XP, Vista, 7: stand alone 32bit/64bit

Integrated AutoCAD application for AutoCAD/Map 3D 2004 - 2011; AutoCAD/Map 3D 2010 - 2011: 64bit

"Floating license" network operation

<sup>1</sup> for detailed and updated list visit [www.softelec.com](http://www.softelec.com)