VPindex

Get Your Drawings Organized!

Drawings → **Clean** → **Index** → **Archive**

- *Volume processing of drawings to a digital archive*
- *Wizard guided workflow*
- *Automatic clean-up of drawings*
- *Auto rotation according to title block position*
- *Intelligent title block field recognition (OCR)*
- *Quick data review for errorless data transfer*
- *Data export by ODBC*

VPindex provides the most efficient and easy-to-use way to transfer scanned drawings directly to any digital archive or database. The batch mode enables to process even thousands of drawings unattendedly. By automatic routines, drawings will be stored as cleaned digital files in any desirable paper format ready to view, edit, plot, and distribute. VPindex' key features include automatic capture and index of relevant data from drawings' title blocks. Customizable workflows and wizard-guided operation make VPindex a perfect time-saver for documentation departments or scanning service bureaus.
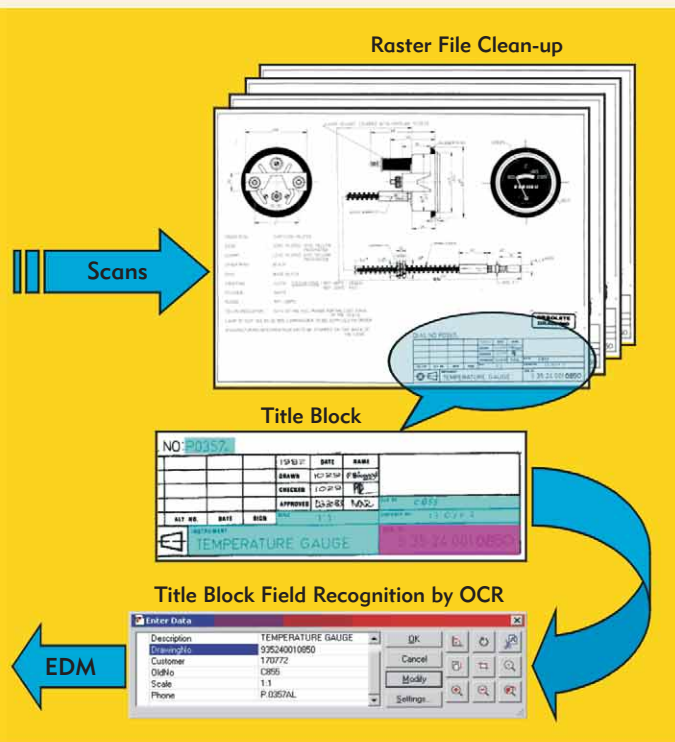
Setting-up a workflow is a breeze with VPindex. First, take a complete collection of scanned drawings from various folders or scan directly into VPindex. Then, just follow the wizard to set-up your desired task list. Guidance is provided for each task in the workflow:

1. Image clean-up and formatting
2. Defining a title block template and relevant fields
3. Capturing and recognizing data from drawings
4. Reviewing and final checking
5. Check-out to a database/EDM system of your choice

For maximum flexibility, all tasks can be processed sequentially and unattendedly in a batch or interactively drawing by drawing.

Preparing Raster Drawings

VPindex includes a full set of automatic functions to clean, correct, and optimize raster drawings in batch mode. You can remove dirt, align, cut - including scale - to a standard or customized paper format. Also, drawings can be rotated automatically with respect to the position of the title block. Of course, cleaning-up raster files and converting them to other

Raster File Clean-up

Scans

Title Block

Title Block Field Recognition by OCR

EDM

Indexing Process

file formats can be part of the batch process, even without indexing.

Indexing

VPindex can automatically capture data from drawings contained in the title block. These data may refer to drawing numbers, project details, dates of issue, revisions, descriptions, and many more. This is essential "index" information to bring into an EDM (Electronic Data Management) system or into a database for document retrieval and access.

VPindex will detect the title block's position automatically - no matter whether drawings are rotated by any orientation! According to a defined field structure, the program will extract the field content with OCR support and will create a unique set of data for each drawing. A field structure can be defined independently from the field template, i.e. it may contain more or less fields than the actual drawing header. This gives maximum flexibility for existing EDM systems. Also, to transfer index information to an existing database, simply read the existing field structure. Since VPindex contains an ODBC interface, this can all be done inside the program.

Review and Checkout Data

VPindex supports the review of batch results for quality control, prior to database transfer.

Once the indexing process is completed, the review function allows to compare and correct the contents of title blocks with the extracted data from each field. Moreover, exporting data with thumbnail images of the title block or the complete drawing is another perfect option for creating an index CD-ROM.

VPindex supports ODBC compliant databases like SQL, Oracle, Access, etc. and interfaces to ODBC compliant EDM systems. Output in ASCII format with selectable delimiters (.CSV) even increases export flexibility.

HTML Format based Indexing List

Specifications

Input

B/w, gray scale or color raster files
Indexing limited to b/w raster images

Supported Formats

TIF, NIF, C4, GP4, CAL, CG4, IG4, MIL, RLC, CIT, PCX, TGA, BMP, JPG, GIF; complete list see **www.softelec.com**

Scanning

TWAIN interface
Direct large format scanner interface
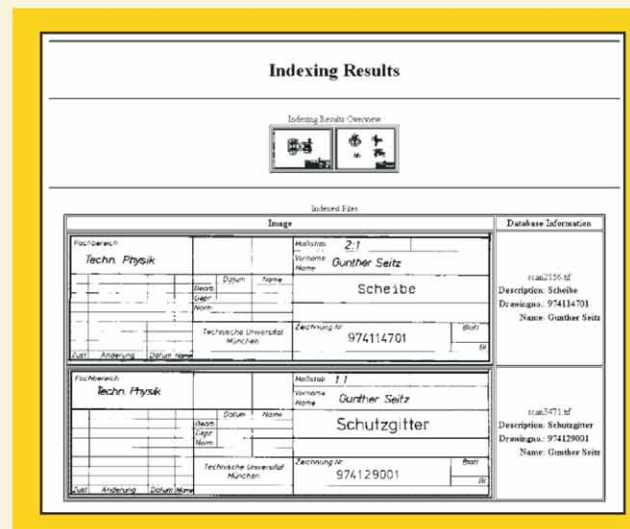
Raster Functions

Auto/manual despeckle, deskew, window cut/crop,
Fill holes, raster smooth, rotate, mirror, invert,
Automatic rubber sheeting to format,
Auto-rotate according to title block position/format,
Cut to paper format

Title Block

Wizard-guided title block template generation
Definition of database fields
Recognition of field contents (using built-in OCR)

Batch Operation

File input selected by directories and wildcards
Automatic raster editing according to a "Task List"
Retrieval of drawing header data (Indexing)
Save raster file to archive
Generate review file for approval
Transfer/save index data to database

Output

Edited raster file in desired format into archive
Review of indexed data for approval before export
Title block contents to customer database and/or HMTL index file
Protocol and error log files

Data Base

Interface to ODBC compliant database (SQL, Oracle, Acces, etc.)
Export to ASCII delimited format (CSV)

System Requirements

OS: MS Windows 98, ME, NT4.x, 2000, XP
HW: Fast Pentium processor, XVGA Adapter, 256 MB memory, 30 MB free disk space

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