



PRIMEPOST™

User Manual Version 4.20

Post OCR Processing

PRIME RECOGNITION

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Overview

PrimePost is a relatively simple application that:

- (1) Reads a PRO format output file (typically created by the PrimeOCR engine)
- (2) In some cases applies custom programmed algorithms to correct data as much as possible (optional)
- (3) Saves PRO file or exports data to ASCII, FASCII, TRU, RTF, PDF, or custom (often comma delimited) format.

The error correction algorithms can be very powerful. Error rates have been cut by over 50% in applications that lend themselves to post processing. Note that the custom algorithms often employ probabilistic formulas, therefore not all modifications may be positive, however, the total effect should be positive.

PrimePost is implemented as a 32 bit based software program. It can process any number of files in any number of multiple level subdirectories with one command (tested up to 30,000 files and 30,000 subdirectories). Only one instance of PrimePost may run from each installation but you may create multiple installation directories and run an instance from each directory. For maximum speed in processing a single directory, you may run PrimePost on several machines (you will need a license for each PC) and point each instance to the same directory (make sure that "OverwriteExisting setting in PRPOST.INI is set to 0).

System Requirements

OS: Win95/Win98, NT 4.0 SP3+, Win2000, WinXP, Windows 2003 Server
RAM: At least 8MB of free RAM per instance (up to 90MB more if dealing with color images)

Installation

Run SETUP.EXE from the main directory on the installation CD and follow the directions presented. The installation program will handle all installation issues automatically, including decompressing all files into a new or existing directory selected by the user.

A program group entitled "Prime Recognition" will be created by the installation program and an icon will be created for the PrimePost program.

PrimePost requires a hardware key or software license. Please see a description of license installation issues in *Chapter 3 of PrimeOCR Access Kit Guide*.

Configuration

The file "PRPOST.INI" controls the program. The settings in this file are documented at the bottom of the PRPOST.INI file, under "CONFIGURATION SETTINGS".

Starting Engine

Clicking on the PrimePost Server icon initiates the server interface. To start processing, press the "Start" button. To start the server programmatically (no manual intervention) execute PRIMEPOST.EXE START. If you supply a

PRO path, (wildcards are allowed in path) then the server will process that PROPath instead of the PROPath found in the INI file.

For example,

```
WinExec("primepost.exe START", SW_SHOW);
```

Or from the Run Command:

```
primepost.exe START c:\images\*.pro
```

Note: The "START" variable is case sensitive.

If you run multiple instances of PrimePost you must copy the PrimePost files into a separate directory for each instance (and run the program from that new directory).

Stopping Engine

To stop the server in the middle of a series of files, press the "Stop" button in the server window. If you restart the engine after stopping it in the middle of series it will start processing at the beginning of the file range, possibly overwriting any previous output depending on the "OverwriteExistingOutput" setting in the PRPOST.INI configuration file.

Progress Reporting

During operation, the server will update the progress of the images being processed. The right window displays the current status of each image being processed. The left side of the updates several statistics during processing. The stats are tabulated by the total files/directories found in the batch, and how many image files have completed processing.

DIRS:	Complete	(number of directories completed in the batch)
	Total	(indicates total number of directories found in the batch)
FILES:	Complete	(indicates total number of files completed processing in all directories – includes files that generated an error)
	Total	(indicates total number of PRO files found in all directories)
FILES (in Dir):	Complete	(indicates total number of files completed processing in this directory only – includes files that generated an error)
	Total (in DIR)	(indicates total number of image files found in current directory)
ERRORS:	Total	(indicates total number of errors encountered while processing all directories)
TIME:	Elapsed	(indicates total time elapsed since starting batch processing of all files)
	Remaining	(is an estimate of how much time remains to process all files in the batch)
	All time is shown in seconds.	

Error Handling

If the Error Reporting flag is set to “0”, then non-fatal error messages will be written to the “PRPOST.LOG” file.

Error Codes

-99	Pro file has not been loaded yet
-100	Could not open temporary pro file
-110	Could not save pro file pro file
-111	Software version does not match version licensed on hardware key.
-120	Could not open temporary pro file
-130	Could not find prverify.ini file
-143	Could not find\open output file
-150	Could not find this pro file
-160	Pro file includes Word output
-170	Indicated Pro file does not have PRO format
-180	DPI reported in PRO file was not correct
-190	Error in output data. File may be corrupted(number_of_zones).
-200	Error in output data. File may be corrupted(good[i].numlines-converted # of lines).
-210	Error in output data. File may be corrupted(4)
-220	Error in output data. File may be corrupted(added_spaces).
-240	Output data. File may be corrupted(display_lines)
-260	Incorrect line number
-270	Incorrect character number
-280	Attempted to enter/cut text beyond end of current line of text.
-290	Attempted to enter/cut text on a blank line.
-300	Last char was <0
-310	Original line number was incorrect
-320	Original char number was incorrect
-340	xy number was incorrect
-744	Could not create this export file
-755	Output exceeded allocated memory
-756	Error with compressing text buffer
-760	Could not open this tif file
-761	This is not a valid TIF file
-764	This is not a valid TIF ifd offset
-767	Unknown tif type
-781	Error reading rational tag in tif file - x_res or y_res
-790	Error in tif file
-870 to	
-999	Error reading license from hardware key
-1032	PrimeOCR engine has not been licensed for PDF output (impacts PrimePost as well)
-1179	License error – please call Prime Recognition
-11791	License error – please call Prime Recognition
-1904	OCR data has not been loaded yet
-1999	Unknown ApplicationType in PRPOST.INI
-9999	Could not allocate memory
-12001	command string was blank

- 12003 command string did not match any known command
- 12004 number of commands was incorrect
- 12005 required command was blank
- 12006 end zone > actual number of zones

Post OCR Processing

In addition to converting PRO files to output formats, PrimePost can be used to apply custom algorithms to further enhance the data, or to convert it to custom formats. This functionality is available in the [PostApp]\ApplicationType= entry in the PRPOST.INI file. An example is provided below of such an algorithm. Each algorithm is custom so there is no standard documented list of algorithms that can be published. If you think your application would benefit from this capability please call Prime Recognition.

Example PrimePost Application

DCOH

Application Type: "DCOH"

Description:

Death Certificate form from state of Ohio.

Output Format:

Comma delimited text with file name of "XXX.txt" where "XXX" is the file name of the PRO file. Green Bar type application with 0 fixed zones and 10 column zones, therefore each text file includes 10 entries on each line of file. (Note that blank fields will show up with no output, for example, a line with only one entry in the first field will look like: 12345,,,,,,,,,.)

"Bad" Definition:

No checking is made for bad files. (The confidence level generated by PrimeOCR is a very strong indicator of the quality of this application's output, therefore a check at this level is not necessary.)