



PDFTron PDF PageMaster™
User Manual

Version 4.x

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2. Installing and Uninstalling PDF PageMaster

2.1 PDF PageMaster Installation

Both the PDF PageMaster Command-line Application as well as PDF PageMaster SDK is supplied as a download from a distributor or directly from www.pdftron.com. The release is packaged as a .zip file ('pagemaster.zip' or 'pagemaster_sdk.zip'). To install the software, simply unzip the archive in the desired location while making sure to preserve the directory (folder) structure during the process.

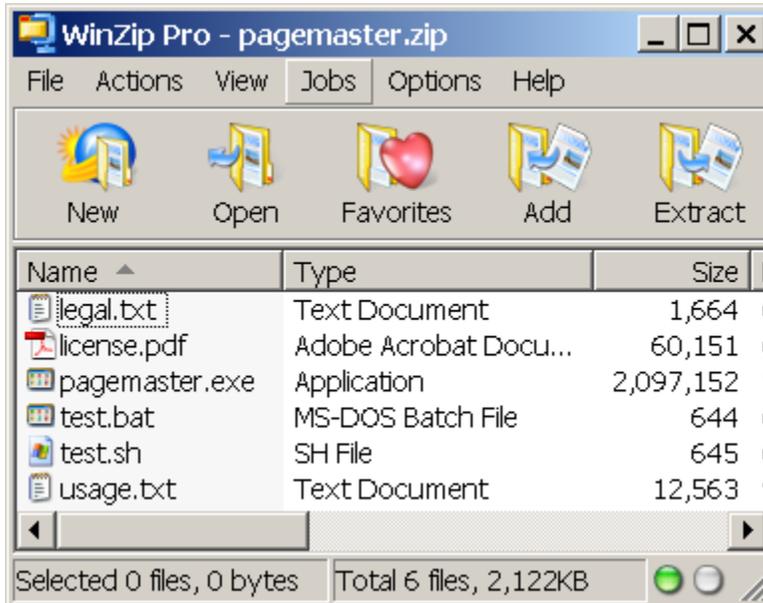


Figure 2.1
Extracting PDF PageMaster Archive using WinZip

2.2 Product Registration

After purchasing a license of PDF PageMaster, you will receive additional registration and license information via email.

If you purchased the PDF PageMaster Command-line Application, you just need to copy the license file provided to you into the "pagemaster" folder to register the software.

For PDF PageMaster SDK, you need to pass the license information during the call to PageMasterInit() to successfully register the SDK and remove evaluation restrictions. For example:

```
PageMasterInit("Joe Doe", "MyCompany", "sRLL4qr555sd63dnd");
```

The first parameter is your user name, the second parameter is your company name, and the last parameter is the license key supplied with your registration information.

2.3 Demo Version Installation

If you wish to evaluate the product, you can download the demo version of the product without any serial number or license key.

To do this, go to PDFTron's **Downloads** page at www.pdftron.com/downloads.html. Click on the appropriate product version/name, which will bring you to the product and the appropriate link for the demo download. Simply Download the zip file ('pagemaster.zip' or 'pagemaster_sdk.zip') and extract the archive in the desired location, while making sure to preserve the directory (folder) structure when extracting the archive. This will provide you with a working copy of the software. The limitation of the evaluation version is that all pages in processed documents will have a demo stamp.

2.4 Uninstalling PDF PageMaster

To remove PDF PageMaster from a computer, simply delete the "pagemaster" folder (for the command-line application) or the "pagemaster_sdk" folder (for PDF PageMaster SDK).

--getkeywords		Get keywords associated with the document.
--getcreator		Get document's 'Creator' description.
--getproducer		Get document's 'Producer' description.
--getpagecount		Get the number of pages in the document.
--settitle	--settitle mytitle	Set document's 'Title' description.
--setauthor	--setauthor myauthor	Set document's 'Author' description.
--setsubject	--setsubject mysubject	Set document's 'Subject' description.
--setkeywords	--setkeywords mykeywords	Set document's 'Keywords' description.
--setcreator	--setcreator mycreator	Set document's 'Creator' description.
--setproducer	--setproducer myproducer	Set document's 'Producer' description.
--noprompt		Disable any user input. By default, the application will ask for a valid password if the password is incorrect.
--extension	--extension ".pdf"	The default file extension used to process PDF documents. The default is ".pdf".
-h or --help		Print a listing of available options.
-v or --version		Print the version information.
--verb	--verb 2	Set the verbosity level. Valid parameter values are 0-10. The higher number results in more feedback. The default is 1.
-d or --disable	e.g. to disable any changes to the document specify -d m e.g. to disable printing and content extraction specify -d phxdc	This option accepts a string of permissions flags that should be disabled. The permission string may include the following flags: a - All permissions. p - Printing. m - Changing the document. c - Content copying or extraction. o - Commenting. f - Filling of form fields. x - Content extraction for accessibility. s - Document assembly. h - High quality printing.
-e or --enable	e.g. to enable commenting: -e o	A string of permissions flags (see --disable option above) that can be enabled. If there is a conflict with one of flags in the 'disable' option, the permission is not granted.
-p or --pass	-p open_pass	The password for secured PDF files. Not required if the input document(s) are not secured using the 'open' password.
-u or --userpass	-u result_pass	The new user password. The password required to open resulting documents.
-w or --ownerpass	-w owner_pass	The new owner/master password. This password is required to adjust permissions settings on resulting documents.
--AES	-u "My pass" --AES	Use 128-bit AES (Advanced Encryption Standard) Encryption.
--nobookmarks		Do not keep bookmarks when splitting or merging pages.
-l or --linearize		Linearize (web optimize) the output file(s).
--reverse		Reverse the page order of the output file(s).

4.1.3 Split by File Size

You can specify the size of your PDF files and PDF PageMaster will split the PDFs to the closest possible kilobyte.

--byfilesize <filesize> will cause PDF PageMaster to attempt to split with the file size of each created file being less than <filesize> KB. (It may not succeed in doing that if any one page is larger than <filesize> KB.)

Examples (assuming that each page can fit into the size provided):

Split largepdf.pdf into files of size 1000 KB or less:
`pagemaster -s --byfilesize 1000 largepdf.pdf`

Split largepdf.pdf into files of size 232 KB or less:
`pagemaster -s --byfilesize 232 largepdf.pdf`

File Naming Convention for Split-by-FileSize Operation

The file is named by the pages that it contains
 <original file name>_<firstpage>-<lastpage> where firstpage is never larger than lastpage

4.2 Merging PDF Documents

PageMaster lets you to easily merge multiple PDF documents into a single output PDF document. You can select all pages or just a selected subset of pages (specific pages, page ranges, odd/even pages, etc) to be copied from each input document.

For a description of how to specify a pagelist as part of this operation, please refer to Section 4.8 of this user manual.

Syntax: `pagemaster (-m or --merge) <input1.PDF>,<pagelist1>,<pagelist2>
 <input2.PDF>,<pagelist3> <PDF folder> <input3.PDF> etc.`

To merge a list of PDF documents, specify -m (or --merge) on the command-line followed by a list of one or more PDF documents to split.

For example, the following command-line will merge 'in1.pdf', 'in2.pdf' and all PDF documents in 'MyPDFs' folder into a file called 'merged.pdf':

```
pagemaster -m in1.pdf in2.pdf MyPDFs -o Output/merged.pdf
```

The last option (-o merged.pdf) instructs PDF PageMaster to save the merged document in the new folder called 'Output'.

The merging process can be fine-tuned with a 'page list' parameter that can immediately follow the input PDF filename (after comma). For example, the following command-line will merge the first five pages from 'in.pdf' and all PDF files stored in the 'MyPDFs' folder:

```
pagemaster -m in.pdf,1-5 MyPDFs,1-5
```

For a detailed description of how to specify 'page-lists' as part of the PDF merge operation, please refer to Section 4.8 of this user manual.

Examples:

The examples provided below are based on the following directory and file structure:

- directory pdf_dir contains files p1.pdf p2.pdf and p3.pdf as well as directories pdf_First and pdf_Second
- directory pdf_First contains directories pdf_Third and pdf_Fourth
- directory pdf_Second contains files p4.pdf and p5.pdf
- directory pdf_Third contains file p6.pdf
- directory pdf_Fourth contains only a text file ignored.txt

Merge files p1.pdf p2.pdf and p3.pdf and store the result in output.pdf:

```
pagemaster -m pdf_dir/ -o output.pdf
```

Merge files p1.pdf p2.pdf p3.pdf p4.pdf p5.pdf and p6.pdf and store the result in output.pdf:

```
pagemaster -m --subfolders pdf_dir/ -o output.pdf
```

Split files p1.pdf p2.pdf p3.pdf and store the resulting files p1_1-5.pdf p2_1-5.pdf and p3_1-5.pdf in output/

```
pagemaster -s pdf_dir/,1-5 -o output/
```

Create the directories output/pdf_First output/pdf_Second and output/pdf_First/pdf_Third, split the files p1.pdf p2.pdf p3.pdf p4.pdf p5.pdf and p6.pdf and store the resulting files p1_1-5.pdf p2_1-5.pdf and p3_1-5.pdf in output/, p4_1-5.pdf and p5_1-5.pdf in output/pdf_Second/ and p6_1-5 in output/pdf_First/pdf_Third/ (pdf_Fourth is not created since it is not required):

```
pagemaster -s --subfolders pdf_dir/,1-5 -o output/
```

Remove the first page of p1.pdf, p2.pdf and p3.pdf:

```
pagemaster -r pdf_dir/,1
```

Remove the first page of p1.pdf, p2.pdf, p3.pdf, p4.pdf, p5.pdf and p6.pdf:

```
pagemaster -r --subfolders pdf_dir/,1
```

Append insert.pdf to p1.pdf, p2.pdf and p3.pdf:

```
pagemaster -i insert.pdf pdf_dir/
```

Append insert.pdf to p1.pdf, p2.pdf, p3.pdf, p4.pdf, p5.pdf and p6.pdf:

```
pagemaster -i insert.pdf --subfolders pdf_dir/
```


The following command-line will attempt to use the password 'pass' to decode any encrypted files in '2password_pass.pdf' and '3password_pass.pdf' and 'pw' to decode '1password_pw.pdf' (and then try pass if pw is not the password of 1password_pw.pdf). The three files will then be merged.

```
pagemaster -m 1password_pw|pw 2password_pass 3password_pass -p pass -o out.pdf
```

Create files file_2-3.pdf with pages 2-3 of file.pdf and file_11.pdf with page 11 of file.pdf. Both of these documents will then be encrypted with 128-bit RC4 encryption and the password out_pass:

```
pagemaster -s -u out_pass file.pdf,2-3,11
```

Create files: file_2-5.pdf with pages 2-5 of file.pdf and file_7.pdf with page 7 of file.pdf. Both of these documents will then be encrypted with 128-bit AES encryption and the password out_pass:

```
pagemaster -s -u --AES out_pass file.pdf,2-5,7
```

4.7.2 Permissions

To set the permissions password (which is used to prevent permissions from being changed), specify the -w option: -w <master password>

To set the permissions, use the options '--enable' and '--disable' with the following values:

Value	Description
a	All permissions.
p	Printing.
m	Changing the document.
c	Content copying or extraction.
o	Commenting.
f	Filling of form fields.
x	Content extraction for accessibility.
s	Document assembly.
h	High quality printing.

Examples:

Merge m1.pdf and m2.pdf to create result.pdf and set its permissions so that printing, document assembly, and high quality printing are allowed, but Content copying or extraction, Commenting and Filling of form fields are not allowed:

```
pagemaster -m m1.pdf m2.pdf --enable psh --disable cof -o result.pdf
```

Merge m1.pdf and m2.pdf to create result.pdf and set its permissions so that printing, document assembly, and high quality printing are allowed, but Content copying or extraction, Commenting and Filling of form fields are not allowed:

```
pagemaster -m m1.pdf m2.pdf --enable a --disable cof -o result.pdf
```


It is also possible to build the command string dynamically (e.g. based on the user or dynamic input), as illustrated in the following code snippet:

```
// Using C#
static void Main(string[] args)
{
    PageMasterInit("username", "company", "lic_key");

    bool linearized_output = true;
    bool aes_encryption = false;
    string output_file = "TestOutput/test3/test.pdf";
    string open_password = "mypass";
    string title = "My Title";
    string author = "Joe Doe";
    string subject = "My Subject";
    string keywords = "key1 key2 key2";
    string creator = "PDFTron PDFNet";
    string producer = "PageMaster";

    // Permissions
    bool printing = false;
    bool high_rez_printing = false;
    bool doc_modifications = true; // Changing the document
    bool content_extraction = true;
    bool commenting = true;
    bool forms_editing = true;
    bool accessibility = true;
    bool document_assembly = true;

    // Given the above settings build a command string.
    string s = "";

    //specify the merge option
    s += "-m ";

    if (!(output_file=="")) s += "-o " + output_file + " ";

    if (!(open_password=="")) s += "--userpass " + open_password + " ";
    if(aes_encryption) s+= "--AES ";

    // Set the permissions.
    s += "-e a -d \";
    if (printing == false) s += "p";
    if (high_rez_printing == false) s += "h";
    if (doc_modifications == false) s += "m";
    if (content_extraction == false) s += "c";
    if (commenting == false) s += "o";
    if (forms_editing == false) s += "f";
    if (accessibility == false) s += "x";
    if (document_assembly == false) s += "s";
    s += "\ ";

    if (linearized_output) s += "-l ";

    // Set document information.
```


6 Frequently Asked Questions

6.1 Does PDF PageMaster have any dependencies on third party components/software?

PDF PageMaster is a completely stand-alone application and it does not include any dependencies on third-party components or software.

6.2 What is the difference between the PDF PageMaster Command-line Application and PDF PageMaster SDK?

PageMaster SDK and the Command-Line Application offer exactly the same PDF page manipulation functionality. The main difference between the two software editions is how the functionality is packaged and accessed. The PageMaster Command-Line Application can be invoked from the command-line, batch scripts, or via a shell command. PageMaster SDK, on the other hand, is primarily intended for integration with third-party applications; it includes a DLL (Dynamic Linked Library) and a set of sample projects illustrating how to use the DLL from C#, VB, Java, and C/C++. One of the advantages of the SDK edition is that it is possible to run multiple threads of execution within the same process.

6.3 What is the difference between PDFNet SDK and PDF PageMaster SDK?

PDF PageMaster is based on **PDFNet SDK**, PDFTron's own core PDF programming technology. PDFNet SDK is a comprehensive developer library for PDF creation, manipulation and rendering, offered on a wide range of platforms and programming environments. If you require functionality for integration in your own applications beyond that which is provided as part of PDF PageMaster SDK, or need more flexibility in implementing the required functionality, please contact a PDFTron representative or visit <http://www.pdftron.com/pdfnet> for more information.

The main distinction between the two components is that PageMaster SDK is a specialized tool for simple PDF manipulations such as page splitting and merging, whereas PDFNet SDK is a general purpose Software Development Toolkit (SDK) that can be used to implement any type of manipulation on PDF documents (including splitting and merging) as well as other type of PDF functionality.

The advantage of PDF PageMaster is that it is very simple to use and that it doesn't require much experience with PDF format or general programming. At the same time PDF PageMaster does not include all of the features and options that are available in PDFNet SDK (<http://www.pdftron.com/pdfnet>).

6.4 Can I integrate PDF PageMaster SDK with my client/server application?

PDF PageMaster has a simple-to-use API that can be easily integrated into third-party client and server-based applications. The SDK is available as a plain 'C DLL' and can be easily accessed from any programming language (including C#, VB.NET, C/C++, Java, VB6, Perl, Python, Ruby, Delphi, etc). For more information on PDF PageMaster SDK, please contact a PDFTron representative at info@pdftron.com.

6.5 I didn't find the answer to my question in the user manual. Are there any other helpful resources?

You may want to search the PDF PageMaster Knowledge Base forum (which can be accessed via PDFTron's website at: www.pdftron.com) or to simply forward your question to PDFTron's technical support team via support@pdftron.com.

7 Support

7.1 Reporting Problems

If you encounter a problem or question regarding PDFTron PDF PageMaster, which is not addressed on PDFTron's website, please submit a problem report to PDFTron's Support group at <http://www.pdftron.com/reportproblem.html>.

When submitting a problem you will be asked to provide the following information:

- Contact details
- Product and Version of the product
- Detailed description of problem
- Problem file(s)
- Whether you have an AMS (Annual Maintenance Subscription).
- Any other information that may be related

7.2 Contact Information

To contact PDFTron directly, please use the contact information below:

Tel: 1-604-730-8989

Fax: 1-604-676-2477

Web site: www.pdftron.com

Email Contacts:

General Business Inquiries: info@pdftron.com

Sales & Licensing: sales@pdftron.com

Product Support: support@pdftron.com

Professional Services: services@pdftron.com

Website related questions: webmaster@pdftron.com

Press & News: press@pdftron.com