DiscPassage for Macintosh

This document contains the following information:
• System Requirements for running DiscPassage
• Installing and Using DiscPassage
• Features
• Troubleshooting
• Some commonly encountered problems

System Requirements for the Macintosh
DiscPassage requires:
• A Macintosh Plus, SE, SE/30, II (any model), Classic, LC, or IIsi with CD-ROM drive.
• About 350K of available space on your hard drive or on afloppy drive.
  A hard drive is strongly recommended.
• System software 6.0.5 or greater, Foreign File Access and ISO 9660 File Access in your System folder
  and driver software for your CD-ROM drive in your System folder. For instance, if you have an
  AppleCD SC drive, the init is named "Apple CD-ROM."
• A minimum of 2 MB of RAM (2.5MB for System 7).
• Color images require a color monitor; they are displayed in 640x480 resolution in 256 colors. You need
  to have 32-bit QuickDraw in your System Folder. Images automatically convert to black and white for
  the SE, Plus, and Classic.
• DiscPassage operates under Finder or Multi-Finder environments, as well as System 7.

Installing & Using DiscPassage
To install the DiscPassage application, insert the floppy diskette
(or CD-ROM), and open the Desktop. Drag the icon labelled "DiscPassage"
to the area on your hard drive where you wish to install it.

• Launch DiscPassage by getting to the hard drive, then double click on its icon.
• DiscPassage first presents you with a database selection menu representing databases on the disc.
• Selecting a database by double-clicking will display the contents for this database. You can navigate
  the disc by searching or browsing from the menu bar or traversing the hierarchically structured contents
  windows.
• An item with a folder icon to the left of the entry indicates that there are levels beneath this. Individual
  entries which can be called up directly will be labelled by one of these types of icons:

        T   text file
        smiley face   image
        audio speaker   audio selection

About DiscPassage

DiscPassage is a program which provides a menu-driven user interface for accessing the information on your CD-ROM.
DiscPassage provides various means of accessing CD-ROM data, including a hierarchical "Contents" menu and "Search" and "Browse" facilities. In addition, DiscPassage offers facilities for displaying graphic images, printing text and images, playing sounds (if the CD-ROM has audio content) and copying text to user-named files.

DiscPassage will run properly only if there is a DiscPassage CD-ROM in the CD drive. DiscPassage CD-ROMs have the word "DiscPassage" or the word "CMC" printed on the CD-ROM or the CD-ROM jewel box.

Once DiscPassage has been installed on your hard drive, use the same installation to access all your DiscPassage CD-ROMs.

Features
DiscPassage offers powerful search and retrieval features, including:

- The File menu allows you to Save text and images, Print text or images, fine tune Image quality (for black and white systems), get comprehensive on-line Help, Eject the DiscPassage disc, see which Discs are available, or Quit.
- The Edit menu provides basic text editing functions including Cut, Copy, Paste, Clear and Select All.
- The Format menu on the main menu bar supports various operations on text files. Once a region of text has been highlighted, you can change its font, point-size, and style. Text files are saved in Microsoft Word format. Format does not affect files on the CD.
- The Document menu shows you the entries for images, audio, or text files related to the file you are viewing.
- The Search menu lets you perform on-line searching on various indexes: Words, Authors, Titles and Subjects. You may search for phrases, wildcards, proximity and combine search terms with the AND, OR, or NOT boolean operators. See on-line Help for more information. Click on the Titles button to see the titles of the documents matching your search criteria.
- Browse lists every word of every document on the disc and the number of documents that contain the word. Click on the Titles button to see the titles of these documents. You may cut and copy a word found in browse to the Search template, and build phrases this way.
- The Find menu allows you to search a document for a search or browse term or any word or phrase you are looking for.

Troubleshooting

Installation of the DiscPassage software should be easy. Problems may arise, however, with installation of the CD-ROM unit and its drivers. Be sure you have the proper inits in your System folder (they have to be inside the System folder or they will not get installed at system startup).

You need to have the following:

• System Software 6.0.5 or greater, Foreign File Access and
• ISO 9660 File Access inits
• An init supporting the type of CD-ROM you have, for example:
  AppleCD-ROM init
• 32-bit QuickDraw, if you have a color system
• You should see an icon for the CD-ROM disc on the desktop. If you don't, the system is not mounting the drive properly. Check to be sure your SCSI cable is securely connected and there are not multiple devices assigned to the same SCSI address. If trouble persists, check the SCSI termination.

Some commonly encountered problems

• An Apple CD-ROM drive requires the Apple CD-ROM init version 2.0 or greater to properly mount ISO-formatted CD-ROMs.
• If your CD-ROM disc is not mounting on the desktop consistently, you may have an init conflict. Be sure to only install the init for the CD-ROM drive you are using, and hide the others (create a folder inside your System Folder to save them).
• Other inits besides drivers may conflict with your CD-ROM inits.
• "The selected index is not available on this Disc" You must be in a text database to access indexes. Some discs, as well as some databases, do not have indexes associated with them.

See the READ.ME file on the root of your CD-ROM drive for more up-to-date information on the software. Be sure to install software from the floppy, if you received one.

New features with version 1.21
(1) License agreement is now available on-line.

New features with version 1.2
(1) New search features have been added:
• A full seven-line search template is now available for searching.
• Boolean operations can be performed (AND, OR, NOT) between search lines. They are activated in
  the popup menus to the left of each search line.
• Proximity operations can be performed:
            ex.   anteater [10] sand
  will find the word 'anteater' in all documents where it occurs within 10 words of the word 'sand'.
• Wildcard searches can be performed:
            ex.   ant*
  will find all words beginning with the prefix 'ant'. Only single words support wildcards.

(2) Support has been added for The Family Doctor CD-ROM.

New features with version 1.11
(1) Support has been added for Audubon's Mammals CD-ROM.

New features with version 1.10
(1) Support has been added for the Yearbooks 1990 CD-ROM.

New features with version 1.04
(1) Support has been improved for the Pioneer 6-disc changer (DRM-600), which now is fully compatible
with the Optical Access driver INIT.

New features with version 1.03
(1) Image display has been sped up considerably (for all types of images).

(2) Images are now dithered on black and white systems (e.g. Classic, Plus, SE, as well as Mac II with
black and white display). The 'Image' option on the File menu allows you to select either black and white,
or dithered images. You may want to play with the settings to see what looks best on your system, with
your particular CD-ROM title (as images vary across titles).

New features with version 1.02
(1) Print has been enhanced. By selecting "Print..." from the File menu, you can now print a single
document, or a document together with its related tables and images. The dialog that pops up lets you
select any or all of these files.

        You can also chose to print a highlighted region of text, without printing the entire document it
        comes from.

(2) Support has been added for the Pioneer 6-disc changer (model DRM-600).

(3) Image quality has been enhanced over version 1.0. In particular, images on the 'Birds of America'
disc will now display images on a white background (not light pink).

(4) Support has been added for the 'American Family Physician' CD-ROM.

DiscPassage for DOS

Version 1.42 March 1, 1993

Contents

1. Before You Call Technical Support
2. Printing or Viewing This Document
3. About DiscPassage
4. System Requirements
5. Installing DiscPassage
6. Starting DiscPassage
7. Using DiscPassage
8. Problem-Solving
9. How to Reach Technical Support

1 - Before You Call Technical Support

CMC maintains a Technical Support staff to help our customers
with problems which occur, and to answer questions and listen to
comments about our products.

DiscPassage is licensed for use by various CD-ROM producers.
If your CD-ROM is the product of a company other than CMC,
please call that company first for technical support.

Before calling for Technical Support, please be sure to read
this document. Many of the most common problems can be solved
using the information provided here. If you do need technical
help, please make a note of the version of DiscPassage and the
title of the CD-ROM(s) which you are using. Also please note
any details about your system which might be relevant to the
problem. For example, if the problem is that graphics will not
display properly, the manufacturer and model of your video
controller card would be helpful. Your DOS version number,
available memory, microprocessor type and whether you are using
third party memory management, file compression or operating
system software (for example QEMM, Stacker or DR DOS) all may
be relevant to problems which occur.

1.1 - System Problems

If the problem you are experiencing is caused by a component of
your system that is not a CMC product, we recommend that you
call the manufacturer or vendor of that product for Technical
Support. CD-ROM Drive installation or malfunction, installation
of DiscPassage under various menuing or windowing interfaces, and
CD-ROM network implementation are some examples.

2 - Printing or Viewing This Document

If you wish to print this document to the default printer,
enter the command "printme" while in the DiscPass directory.
If you would like to view the document on your monitor, enter
the command "readme".

3 - About DiscPassage

DiscPassage is a program which provides a menu-driven user
interface for accessing the information on your CD-ROM.
DiscPassage provides various means of accessing CD-ROM data,
including a hierarchical "Contents" menu and "Search" and
"Browse" facilities. In addition, DiscPassage offers facilities
for displaying graphic images, printing text and images, playing
sounds (if the CD-ROM has audio content) and copying text to
user-named files.

DiscPassage will run properly only if there is a DiscPassage
CD-ROM in the CD drive. DiscPassage CD-ROMs have the word
"DiscPassage" or the word "CMC" printed on the CD-ROM or the
CD-ROM jewel box.

Once DiscPassage has been installed on your hard drive, use
the same installation to access all your DiscPassage CD-ROMs.

4 - System Requirements

IBM PC or compatible with MS-DOS version 3.1 or later.

CD-ROM drive with appropriate drivers.

Microsoft CD-ROM extensions version 2.0 or later.

500K available conventional memory.

1 Megabyte free space available on hard drive.

VGA video card and monitor. Super VGA card with VESA driver
recommended.

For CD-ROMs which contain audio content, headphones or amplified
external speakers which connect to the CD-ROM audio jack or
external speaker outputs.

The "files" command in the CONFIG.SYS file should be set to
at least 20 ("files=20").

5 - Installing DiscPassage

Log onto the CD-ROM drive (or the floppy drive, if installing
from a floppy disk) by entering the command "D:" (If "D" is not
the letter of your CD-ROM or floppy drive, use the appropriate
letter.) Enter the command "setup". The setup program will
prompt you through the installation procedure. Setup creates
a directory on your hard drive which contains the DiscPassage
files. No changes are made to your system files (like
AUTOEXEC.BAT or CONFIG.SYS).

6 - Starting DiscPassage

Once DiscPassage has been installed, any DiscPassage CD-ROM
can be accessed by placing the disc into the drive and entering
the command "DP" at the DOS "C:" prompt. (If you have more than
one hard drive in your system, substitute the appropriate letter
for "C".)

7 - Using DiscPassage

After the "DP" command has been entered, a license agreement
will be displayed. Press enter to accept the agreement. A
title page illustration will then be displayed, followed by
the DiscPassage main menu.

7.1 - Using Help

The best way to learn about DiscPassage is to use it in
conjunction with the help feature. "Help" is availabe from
any location in the program, beginning with the opening license
agreement screen. To display context-related Help, press the
"F1" key. A window on the screen will provide information related
to the DiscPassage function currently in use. "Help" provides
much valuable information which can help you learn to use the
features found in DiscPassage more effectively. The "Search"
feature in particular is extensively documented.

7.2 - Using The Main Menu

DiscPassage displays a menu bar at the top of your screen.
The menu includes the selections "Search", "Browse",
"Contents", "Database", "Printer" and "Change/Exit". "Search"
helps you search the database for specific words, authors,
subjects and titles, to identify related documents. "Browse"
helps you review lists of words, authors, subjects, or titles,
then select corresponding documents. "Contents" lists the table
of contents contained in the database, and allows you to select
a document. "Database" identifies information available on the
CD and helps you select a database. "Printer" lets you specify
a printer type for printing graphic images, and specify a default
printer port. "Change/Exit" lets you change to another
DiscPassage CD-ROM disc or drive letter, or exit DiscPassage.
Use the right/left arrow keys to highlight different selections.
Press "enter" to select the highlighted title.

7.3 - Using The Function Keys

While using DiscPassage, the descriptions of any applicable
function keys are displayed at the bottom of the screen.
Here is a summary of the function keys used in DiscPassage:

F1 provides on-line Help. A Help screen which is relevant to
the current context is displayed.

F2 clears the search template so the user can start a new search
process.

F3 displays the next text article from a search list, when the
user is viewing an article from that list.

F4 toggles the graphics display between VGA and high
resolution monochrome when the graphics mode is standard VGA.
F4 also can be used to jump directly from the opening license
agreement to the main DiscPassage menu, bypassing the title
page graphic.

F7 prints the currently displayed text file or graphic image.
Before printing images, select "Print" from the main
DiscPassage menu to specify "Epson" or "HP Laser Jet". Your
printer must be compatible with one of these two standard
printer types in order to print images under DiscPassage.

When printing a graphic, there will be no message on-screen
while the printing is taking place. When the printing is
successfully completed, three quick beeps (low - high - low)
will sound. If a problem is detected, two beeps (high - low)
are sounded.

F8 copies the currently displayed text file to a user-named
file.

F9 displays a menu of tables, images or audio selections
related to the current selection.

F10 displays the titles found during a search, or highlights
the search term in the text.

7.4 - Using the Special Function Keys

"Enter" selects the currently highlighted menu choice.

"Escape" exits the current menu, document, image, or audio selection and returns to the previous menu or document.

"Home" goes to the beginning of the document or top of the menu.

"Page up" scrolls up one page in the document or one menu screen.

"Page down" scrolls down one page in the document or one menu screen.

8 - Problem-Solving

If you experience problems while installing or running DiscPassage, the information which follows may be helpful. You will also find useful information in your CD-ROM drive manual, the DOS manual or your computer system manual.

8.1 - CD-ROM Drive Problems

If you are unable to log onto the CD-ROM drive, just as you would a floppy drive (by typing "D:<enter>", for example), the CD-ROM drive is not working properly. Some possible reasons are (1) the CD-ROM installation process was not successfully completed, (2) the system was not rebooted following the CD-ROM installation, (3) the CD-ROM drive was not turned on prior to booting the system, (4) the cables have been disconnected or damaged or (5) files on your system have been lost or changed. If there is a problem with the CD-ROM Drive, check for these possibilities and, if necessary, contact the CD-ROM Drive manufacturer for Technical Support.

8.2 - MSCDEX

MSCDEX.EXE (Microsoft CD-ROM Extensions) is an extension to DOS which allows the system to recognize the CD-ROM drive as another disk drive, assigning a drive letter to the CD-ROM. MSCDEX.EXE is included in the software supplied with the CD-ROM drive, and is added to the system by running the CD-ROM drive installation program. If you suspect that MSCDEX has not been properly installed, run the CD-ROM drive install program or contact the CD-ROM drive manufacturer.

8.3 - Memory Requirements

DiscPassage requires 500K RAM free to run properly. Use the
command "chkdsk" to check the amount of memory which is free.
The last line in the display shows the amount of free memory
in your system. If your system does not have enough free memory,
consult the DOS manual for help in optimizing your system's
memory handling and increasing conventional memory.

8.4 - Command Line Options

Under some cirmumstances it is helpful to enter some extra
information when typing "DP" to start DiscPassage. DiscPassage
provides two command line options which can be used to specify
(1) the CD-ROM drive letter or (2) a video card type other than
the one which is auto-detected.

8.5 - Specifying the CD-ROM Drive

DiscPassage will normally select the first available CD-ROM
drive letter. If there are multiple CD-ROM drives in the
system, use the "-d<drive letter>" option to specify the
drive to be accessed. For example, a multiple CD-ROM player
might have six drives, with the letters D through I assigned
to them. If the DiscPassage CD-ROM to be accessed is in the
second drive, then the command to start DiscPassage would be
"dp -de".

8.6 - Specifying the Video Card Type

DiscPassage will try to detect the type of video card in the
system and supply the appropriate video driver for displaying
graphic images. Use the "-v<video card type>" option to
override the card which is detected and substitute one from
the list below. For example, if the graphics are not
displaying properly, and the user knew that a Trident video
card was installed in the system, the command "dp -vtrident"
would start DiscPassage, overriding the autodetected card,
and supply instead a video driver for the Trident card.

The video card types which can be used as command line options
are listed below:

vesa
tseng   (STB, Orchid, Genoa)
tseng4   (Orchid)
paradise   (Western Digital, AST)
video7   (Video 7, Headland, VRAM, Fastwrite)
trident
everex
ati   (ViewPerfect, ViewSonic)
chipstech   (Chips and Technologies, Cardinal)
aheada
aheadb
genoa
zymos
oak
tecmar
stdvga   (standard vga, 360 x 480 x 256 color)
mode12   (monochrome)
mode13   (standard vga, 320 x 200 x 256 color)
textonly   (no graphic display - may help with EGA)

8.7 - Adding Command Line Options To DP.BAT

If it is necessary to use a certain command line option each
time DiscPassage is run, use the DOS EDIT utility to insert
the option into the DP.BAT file. Go to the root directory (or
whatever directory the file DP.BAT is in. Enter the command "edit
dp.bat". Move the cursor to the line in the file which starts
with "dpsg.exe". Move the cursor to the first "%" and insert
the exact command line option (such as "-vtrident "). The line
will now read, for example, "dpsg.exe -vtrident %1 %2 %3". Save
the file. Test the change by running DiscPassage.

8.8 - Graphics Display - VGATEST

If graphics images do not display properly, there are two test
programs in the DiscPass directory which may help. To run
VGATEST, enter the command "vgatest" while in the DiscPass
directory. VGATEST displays a message which tells which video
card type is detected. If a DiscPassage CD-ROM is in the CD-ROM
drive, pressing "enter" will display a graphic from that disc.
Use the video card command line option (see explanation above) to
try out different video graphics drivers. (The -v option can be
used with both the "dp" and the "vgatest" commands.)

8.9 - Graphics Display - VESATEST

If none of the video drivers in DiscPassage work correctly with
your video card, you may want to use a VESA video driver.
VESA is a standard which has been created for interfacing with
super VGA video cards. A Super VGA card may have a VESA driver
built into the ROM (read only memory) of the video card. Older
cards may require a TSR (terminate and stay resident - a program
which, once executed, resides in your computer's memory) driver
to be loaded in order to provide VESA support. This TSR may be
found on the distribution disks from the video card manufacturer,
or may be obtained directly from the video card vendor or
manufacturer.

To determine if a VESA driver is currently available in your
system, run VESATEST from the DiscPassage directory. This
program will tell you if VESA video extensions are loaded,
whether or not DiscPassage will use VESA for image display, and
if not, why DiscPassage will not use VESA. DiscPassage requires
that VESA mode 101H is supported in order to display 640 by 480
by 256 colors.

8.10 - Audio

Some DiscPassage CD-ROM titles contain audio information.
The audio from these discs will come through the CD-ROM
drive's audio outputs. If your system is equipped with a
sound card, the DiscPassage CD-ROM audio will not be heard
through the sound card unless the CD-ROM's audio outputs are
connected to inputs to the sound card. Consult the sound
card vendor for information regarding hardware which may
be available to make the connection.

8.11 - Program Crash

If DiscPassage fails to start properly, exits to DOS
prematurely or "freezes" your system at some point, there are a
number of possible causes to look for.

The first item to check is free memory (see MEMORY
REQUIREMENTS above).

Another possible cause of problems is the interaction between
DiscPassage and your graphics card. Try running DP with the
"-vtextonly" option (see COMMAND LINE OPTIONS above). If the
crash no longer occurs, experiment further with the various
video card options.

A third area to check is conflicts between DiscPassage and
other software already loaded in memory (device drivers or
TSR programs). One way to test for such conflicts is to insert
the word "rem" before each line of the Config.Sys and
Autoexec.Bat files which installs drivers and TSRs which are
not needed to run the CD-ROM unit. The "rem" negates the
line so that when the system is booted, that line has no effect.
If DiscPassage then runs properly, the "remmed out" lines can
be brought back in one at a time, until the conflicting line is
identified. Sometimes changing the order that these lines
appear in the files can eliminate a conflict.

A common conflict which causes DiscPassage to crash is between
some mouse drivers and the VESA video driver. If you press
enter to continue from the license agreement and the system
goes immediately back to DOS, displaying the CD-ROM drive, or
if after the first graphic is displayed the system freezes and
an error message "memory allocation error..." is displayed,
there probably is a mouse driver/vesa driver conflict. Test for
this by "remming" out the MOUSE.COM line in the autoexec.bat
file. After rebooting the system, run DiscPassage. If
DiscPassage runs properly, the conflict has been identified. The
solution is to obtain an updated driver from the manufacturer of
the mouse, or a different mouse driver.

New features with version 1.2 of DiscPassage

• **Memory Usage**
 DiscPassage now uses virtual memory, so it will automatically take
 advantage of any expanded or extended memory on your system. It is
 very important that you run the SETUP.EXE program provided with your
 floppy update. In particular, the software depends on an environment
 variable, TMP, for its use of virtual memory. This variable should be
 set to a *writable* location. If you run DiscPassage from the dp.bat
 file (copied by SETUP to the root of your hard drive), you should not
 experience any problems.

 The SETUP.EXE program will now create the appropriate commands in
 dp.bat which set up the TMP environment string for proper execution.
 However, if you have no environment space left, you may need to set TMP
 yourself in your autoexec.bat, as follows:

        set TMP=c:\discpass

 with a writable location for the software to use during its operation
 (i.e. it cannot be set to the CD-ROM drive).

 If you want to increase the size of your environment space (the default
 size is 128 bytes for MS-DOS), you can add the following line to your
 config.sys file:

        shell = c:\command.com /e:1024 /p

 where c:\ is the location of command.com, and you wish to increase the
 environment size to 1024 bytes.

• **Packed File Support**
 DiscPassage now supports large numbers of files on disc, and allows for
 files to live in 'packages' for more efficient operation on MS-DOS. This
 operation is completely transparent to the operation of the software.
 The benefit to you as a user is more efficient retrieval of files from
 CD-ROM, in cases where a large number of files is present on disc.

• **Pioneer Audio Fix**
 Forcing an alternate drive letter from the command-line, for multi-drive
 units such as the Pioneer 6-disc changer (DRM-600), would only play
 audio selections for subsequent discs (not the first selected, if it was
 not the first drive letter on the system). Audio is now functional for
 all drive letters, even when the drive-override from command-line option
 is used. You need to have version 1.03 or greater of the Pioneer driver.

New features/fixes for 1.2d
• Trident 1 Meg video card
  Support has been added for the newer Trident video cards with 1 Megabyte
  of video memory on board.

New features/fixes for 1.2e
• Text only operation
  There is now a -vtextonly commandline option to suppress all images. This
  allows proper operation of EGA video cards, which may have had split text
  displays (the new SVGA detection was the culprit). This switch can also
  be useful when running on a dual monitor system (say, both SVGA and MDA)
  when text-only operation is desired. Use this option as follows:

        dp -vtextonly

  when starting up DiscPassage.

New features/fixes for 1.2f
• When printing very wide tables (more than 100 characters wide), sometimes
  the second page printed improperly. This has been corrected. Some medical
  CD-ROM's contained a few wide tables which manifested this problem.

New features/fixes for 1.2g
• Support has been added for 'The Family Doctor' CD-ROM.

New features/fixes for 1.2h
• A new video option has been added, which allows you to force text display
  to black and white. This option was added primarily to support Braille
  users with EGA video. This option will work in conjunction with other
  -v option switches.

  In particular, if you are a Braille user with EGA, you should use
  DiscPassage in the following manner:

          dp -vtextonly -vmono
  in order to view text properly on an EGA display, in black and white.
  This option may also be helpful for display on some laptops.

• Additional support for new Genoa SVGA BIOS releases has been added.
  Previous versions of DiscPassage only supported earlier versions of the
  BIOS.

• The video option -vmode13, which is available for standard VGA systems
  which do not support mode $13x (Video 7 with only 256K video memory, for
  example) was broken; this has been fixed.

• A new version of the installation program 'SETUP.EXE' allows installation
  to a subdirectory of your choice.