DOS CD-ROM Data Card

PANZER GENERAL ™

R E A D

We know you're anxious to begin the DOS version of PANZER GENERAL, but before you do, please be sure that your system meets the following minimum requirements:

- 386DX/33 Mhz IBM PC or compatible
- 4 MB of RAM
- MS-DOS 5.0 – 6.22, DR-DOS 6.0
- An **Uncompressed** Hard Drive with **10 MB free**
- SVGA video adapter with a Color SVGA Monitor
- A 100% Microsoft (or Logitech) Compatible Mouse
- Microsoft Mouse driver version 9.0 or higher, or Logitech Mouse driver version 6.24 or higher
- A 2X CD-ROM drive

The minimum amount of free RAM required is:
450,000 BYTES OF FREE BASE RAM
2,800,000 BYTES OF FREE XMS

Remember, 1K is equal to 1024 bytes. For example, 440K equals 450,560 bytes.

Users with only 4 MB of RAM who have TSR (terminate and stay resident) files loaded high (including disk caches such as Smartdrive) may have to create a boot disk to run PANZER GENERAL. Refer to the "Troubleshooting" section for more information.

Note: hard drive size and total system memory available have no bearing on free RAM. Follow the directions below to determine if you have enough free RAM to run the game.

To Check Your Free RAM

Type **MEM** from within the DOS directory. The free base RAM is listed as "LARGEST EXECUTABLE PROGRAM SIZE". Compare the listed amount to the amount of free memory required by the game. Also listed is "FREE EXTENDED MEMORY" (or free XMS). If your amount is lower than the game requires, follow the instructions for making a "boot disk" given under the "Memory" section of this data card, or free up additional memory (see the Memory Management section of your DOS manual) before continuing.

INSTALLING THE GAME

The game cannot be played from the CD; some files must be installed to your hard drive before you can begin play.

1. To install the game place the CD in your CD-ROM drive. Be sure this drive is the active drive. For example, to make drive D the active drive, type **D:** and then press Enter.
2. Type **PGDOS** and press Enter. A screen listing two options appears; **choose Option A to install the DOS version of PANZER GENERAL**. A new screen listing basic system information is displayed. If the install program detects any unmet system requirements, the problem areas will be highlighted in red. Clicking on any item (or typing the corresponding item number) displays additional information and/or help for that item.
3. Choose one of two install options:

Econo Install	**(3 MB of hard drive space)**
Deluxe Install	**(13MB of hard drive space)**

4. Follow all on-screen prompts.

INSTALLING THE GAME (continued)

If you experience problems during installation, please refer to the "Troubleshooting" section. Additional information regarding memory, sound, video, and mouse setup can be found there.

STARTING THE GAME

1. Boot your system normally with MS-DOS 5.0 – 6.22, DR-DOS 6.0.
2. Insert the CD into the CD-ROM drive.
3. Be sure that the hard drive containing the game is the active drive.
4. Change the current directory to the game's directory. For example, to change to the default directory type **CD\PG** and press Enter.
5. Type **PG** and press Enter to start the game.

For complete and specific "how to play" information, please refer to the rule book. Any notes regarding changes to the game made after the rule book was printed, or any rules errata can be found after the "Troubleshooting" section.

SAVING GAMES

PANZER GENERAL requires space on your hard drive for saved games and temporary files. You need approximately 500,000 bytes free on your hard drive.

TO VIEW THE GAME RULE BOOK AND NOTES

The PANZER GENERAL CD-ROM contains the rule book for the DOS version in text format (.txt) as well as Portable Document File (.pdf) format.The text version can be read using any ASCII text reader/ editor. The PDF files are read using a program called Adobe Acrobat™. Adobe Acrobat can be installed when "Install Reference Manuals" is selected from the install menu. **You must run PGDOS.BAT separately and choose Option B to install Adobe Acrobat.** At one point during the install, Adobe Acrobat™ will ask for permission to modify CONFIG.SYS and AUTOEXEC.BAT files, we strongly recommend that you tell it to "skip this step".

To view game documentation using Adobe Acrobat:
1. Move to the corresponding Adobe Acrobat directory (default is C:\acrodos).
2. Type **ACROBAT** and press Enter.
3. When the program begins, an OPEN FILE menu is displayed. To view the game rule book, select the PANZER.PDF file from the **\MANUAL** directory on your **game CD**.
4. Control icons for the Acrobat Reader program can be seen at the top of the screen. You can navigate through the documentation by using the arrow icons; to customize your view size for a page, use the magnifying glass icons.
5. You can print the entire document or custom sections by selecting PRINT from the FILE pull-down menu.

NOTE: For more detailed information on using Acrobat™ Reader, pull down the HELP menu and select "Acrobat Reader Help," or open the HELPREAD.PDF file.

This section provides you with several easy steps to solve some common problems.

TROUBLESHOOTING

MEMORY

This game requires **450,000** bytes of **free base** memory and **2,800,000** bytes of **free extended** (XMS) memory to run. Read the front page of this data card to find out how to check your free RAM. If you do not have enough free base memory, the game may tell you in the form of an error message or it may crash after start up or during play. Not having files and buffers set correctly for the program can result in corrupted data in saved games and/or crashes during play.

HOW TO MAKE A BOOT DISK

You can free more memory without changing your normal system configuration by creating a boot disk. A boot disk is the best way to temporarily change your system's configuration without possible side effects. You can make a pre-configured boot disk from the install program using the following instructions.

1. Place a blank disk in your A: drive. (Note: it must be your A: drive to operate properly.)
2. Place your PANZER GENERAL CD into your CD-ROM drive.
3. Change the active drive to the CD-ROM drive (usually D:) by typing **D:** and pressing Enter.
4. Type **PGDOS BOOT** and press Enter.
5. Follow the on-screen prompts until you see "Boot Disk Creation Successful".
6. Add the appropriate CD-ROM (and if applicable, sound card) drivers to your boot disk. These can be found in the original C:\CONFIG.SYS and C:\AUTOEXEC.BAT files, or the appropriate hardware manuals.

To Start the Game with This Boot Disk

1. Place your boot disk in your A: drive and the game disk in your CD-ROM drive.
2. Reboot your machine (**Ctrl-Alt-Del** on the keyboard, or hit the reset button).

After your machine reboots, you will find yourself in the PANZER GENERAL game directory. Type **PG** and press Enter to start the game.

This procedure works for most systems. Certain conditions, however, may prevent our program from successfully creating a boot disk for your particular system setup (a nonstandard mouse driver or operating system other than MS-DOS or DR-DOS, for example). If you experience problems using this procedure, try the manual boot disk procedure below. (Note: This procedure may not work with PS/1s or laptops.)

To Create a Boot Disk Manually

1. Place a floppy disk in drive A: (Note: it must be in drive A:).
2. From the C: prompt type **FORMAT A:/S** and press Enter.
3. Go to the A: drive by typing **A:** and press Enter.
4. Type **EDIT CONFIG.SYS** and press Enter. When the blue screen appears type in the lines just as they appear in the sample CONFIG.SYS below. Save this file (use "Save" not " Save As"), then exit.
5. Type **EDIT AUTOEXEC.BAT** and press Enter. When the blue screen appears type in the lines just as they appear in the sample AUTOEXEC.BAT below. Save this file (use "Save" not " Save As"), then exit.

Sample files:

CONFIG.SYS	AUTOEXEC.BAT
DEVICE=C:\WINDOWS\HIMEM.SYS	PATH=C:\;C:\DOS;C:\MOUSE;C:\WINDOWS
DOS=HIGH	PROMPT PG
FILES=25	LOADHIGH MOUSE
BUFFERS=25	

Note: If your computer has no form of Windows present, replace C:\WINDOWS with C:\DOS in the "DEVICE=..." statements in the CONFIG.SYS file listed above.

Be sure to include the necessary CD and sound card drivers in the appropriate files. Refer to your respective CD and sound card manuals, or original CONFIG.SYS and AUTOEXEC.BAT files, for the correct names and locations of the drivers required.For example, users of the Media Vision Pro Audio Spectrum 16 may need the following line in their CONFIG.SYS file:

DEVICEHIGH=C:\PROAUDIO\MVSOUND.SYS D:3 Q:7 S:1,220,1,5 M:0 J:1

CD-ROM drivers may appear as follows:

CONFIG.SYS   DEVICE=C:\CDROM\CDROM.SYS /D:MSCD001
AUTOEXEC.BAT   C:\WINDOWS\MSCDEX.EXE /D:MSCD001

Note: DOS looks for the /D: to match CD-ROM drivers in the CONFIG.SYS and the AUTOEXEC.BAT files.

To Start the Game with This Boot Disk:

1. Place your boot disk in your A: drive and the game disk in your CD-ROM drive.
2. Reboot your machine (**Ctrl-Alt-Del** on the keyboard, or press the reset button).
3. After your machine reboots, change the active drive to the drive that the game is on, go to the directory that the game is on, type **PG** and press Enter to start the game.

SOUND CARDS

The following sound cards are supported: Gamewave32/Soundwave32, General Midi; Roland SCC-1/MPU 401, General Midi; Ultrasound, General Midi; Waveblaster, General Midi; Sound Blaster Pro 16 ASP; Sound Blaster Pro II; Sound Blaster Pro I; Sound Blaster Regular; Adlib Gold; Adlib; Media Vision PAS 16 in Sound Blaster regular mode; Media Vision Thunder Board.

If you are experiencing problems with your sound card, try running the diagnostic software that comes with your card. **Eighty percent of all sound card problems are due to mistaken configurations.** If you are running a sound card that is not listed above, or are running a sound card in an emulation mode, your results may not be optimal. This game was tested only on the listed cards.

If you are experiencing problems with the game, try configuring the game for No Sound. If the game will now run normally (but without sound, of course), then you probably need to reconfigure your sound. Type **SOUND** at the game directory, choose "NO" when asked to accept the default settings, correct the IRQ setting, and try starting the game again. If your game still will not run, consult the manual that came with your sound card for diagnostic procedures.

If your sound card's IRQ is set higher than 7, you may experience intermittent sound and music. To correct this, set your sound card to a lower IRQ. Refer to your sound card manual for detailed instructions.

Note that the Media Vision PAS 16 and other cards which emulate the Sound Blaster family of sound cards must be configured as "Sound Blaster regular" for the game to run properly.

PANZER GENERAL's sound installer lists several sound card drivers not supported by the game. These drivers may work, so are included in the sound installer. DOS4GW does not normally work with sound card IRQs set higher than "9."

VIDEO CARDS/VESA DRIVERS

The following video cards are supported: ATI; Cirrus (Cirrus Logic); Diamond (many cards may require individual drivers); Genoa; Orchid; Paradise; Trident; Tseng (ET 4000)

MOUSE SETUP

If your mouse is not functioning, you should make sure the driver has been loaded. Windows and other programs of its type have built-in mouse drivers that do not function outside of their environment. Loading a mouse driver may be as simple as typing **MOUSE** (and pressing Enter) before starting the game. Since the command differs from mouse to mouse, consult your mouse user's guide.

If your mouse is acting erratically, it may be due to an old mouse driver for your mouse, or it may not be fully Microsoft or Logitech compatible. Check with the mouse manufacturer to see if there is an updated mouse driver available.

Additional scenario testing by: Eric W. Adams, Steve Murphy, Gerald Penaflor, and Kevin Wallace.

For further technical assistance, please see the "CONTACTING SSI TECHNICAL SUPPORT" section on the "Windows® 95 and Macintosh® CD-ROM Data Card."

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