



KIDS TO ADULTS



CONTENT RATED BY
ESRB



ELECTRONIC ARTS™

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System Requirements

Computer — IBM-PC 386SX or higher or a 100% compatible system.

Video Card — an IBM VGA or compatible video card with at least 256K of video RAM.

Hard Disk — 2MB hard disk space to install and play either or both games from the CD.

CD-ROM — MS-DOS CD-ROM extensions 2.1 or higher are required.

Free RAM — you must have at least 640K of base RAM (memory). Of the 640K, at least * 527,360 / ** 544,768 bytes of base memory must be available at the DOS prompt to run the minimum game configuration. Other configurations may need as much as * 566,272 / ** 581,632 bytes of free RAM. See **Memory Requirements** (p. 11) for more information.

EMS — to play either *Underworld* game, you must configure your computer to make use of expanded memory. The amount varies:

* UW1: In addition to 515-533K free base RAM, you need at least 480K (491,520 bytes) of expanded memory available at the DOS prompt.

** UW2: In addition to 532-568K free base RAM, you need at least 656K (671,744 bytes) of expanded memory available at the DOS prompt.

2 See **Memory Requirements** (p. 11) and **Optimizing Your System** (p. 13) for more info.

Documentation and a preview of new EA titles are provided on-disk. If you would like to receive the printed manual, please see the order form on page 21.

Whenever any part of this book applies to only one of the two games, that part will be marked with * (for *Underworld I*) or ** (for *Underworld II*).

Windows 95 Installer

USING THE INSTALLER

Before you begin, make sure the game disk is in your CD-ROM drive. Make sure *Windows 95* is running and that the Installer screen appears (*EA Presents...* displays at the top). If not, double-left-click on *My Computer* and double-left-click on the CD-ROM drive.

The screen that appears has five buttons:

- | | |
|-----------------|---|
| INSTALL | Creates a shortcut icon and reboots your system to DOS. It then displays onscreen instructions on how to install and run the game. |
| COMING SOON | Previews recent and upcoming products. Left-click on any game name to view a movie from that title. |
| INSTALL ACROBAT | Installs the <i>Windows</i> version of Adobe <i>Acrobat</i> (the on-disc document viewer). Refer to the rest of this manual for instructions on installing the DOS version. |
| HELP | Displays a readme file that explains shortcuts, errors and technical support information. |
| QUIT | Quits out of the Installer and returns to the <i>Windows 95</i> desktop. |
1. Left-click on INSTALL on the Installer screen.
 2. Left-click on YES in the MS-DOS prompt window to reboot your system to DOS.
 3. Follow the onscreen instructions to install the game.

The install program looks for all the device drivers on your system and then creates a shortcut icon for the game. This shortcut could contain all the lines your system needs to run the game properly.

If an error message displays during the installation (such as “No mouse driver present” or “CD-ROM drive not found”), you will need to obtain the appropriate drivers and edit the shortcut icon (see the next section).

Note: To return to *Windows 95* immediately after installation, type EXIT at the DOS prompt, then press **Enter**.

4. The next time you load *Windows 95*, the new shortcut icon should appear on your desktop.
5. Double-click on the icon to start the game. If you do not have certain drivers, however, the game will not run until you get them and add the appropriate lines to the shortcut.
6. If you must manually add drivers to the shortcut, you'll need to edit the shortcut icon according to the instructions for making a Boot Disk. (The steps for editing the shortcut are outlined below.)

EDITING THE GAME SHORTCUT ICON

1. Make sure you have whatever drivers you were missing initially. You can obtain them directly from the manufacturer or the World Wide Web. (See the card labeled **Running This Game in Windows 95** for contact information.)
2. Before the game will launch with your new drivers, you need to edit the shortcut and add the appropriate driver lines.
3. Right-click once on the shortcut icon.
4. Left-click once on *Properties*, then left-click on the *Program* tab at the top of the window.
5. If the box next to *Close on exit* is empty, left-click on it.
6. Left-click on the *Advanced* button. The *Advanced Program Settings* screen appears.
7. Make sure checkmarks appear next to *MSDOS mode* and *Warn before entering MS-*
4 *DOS mode*. If not, left-click once in the box next to the item.

8. Make sure a dot appears in the circle next to *Specify a new MS-DOS* configuration. If not, left-click once in the circle.

Two windows display at the bottom of this screen — one is labeled *CONFIG.SYS for MS-DOS mode* and one is labeled *AUTOEXEC.BAT for MS-DOS mode*. These are the two windows in which you will edit the shortcut configuration.

The text in these windows was generated by the game's install program. You will be adding device driver lines to one or both of the windows. Modifying or deleting this text has no effect on the files your system normally uses to boot up.

9. Refer to **Creating a Boot Disk** (p. 13) to determine which system file contains the driver line(s) you need to add (either *CONFIG.SYS* or *AUTOEXEC.BAT*).
10. Add the necessary driver line. If you're unsure of where to place it, or need to see exactly how it's worded, refer to **Creating a Boot Disk**.

If the driver belongs in *AUTOEXEC.BAT*, left-click in the *AUTOEXEC.BAT for MS-DOS mode* window.

If it belongs in *CONFIG.SYS*, left-click in the *CONFIG.SYS for MS-DOS mode* window.

Some *Windows 95* systems have Plug-and-Play capabilities. If you see a PlugPlay driver line in your *CONFIG.SYS* (for example: C:\PLUGPLAY\DWCFGMG.SYS), you will need to keep it. If you don't already have one, don't worry.

11. Left-click OK, then left-click OK again.

USING THE SHORTCUT TO RUN THE GAME

Double-left-click on your revised shortcut to run the game.

If you've set up the shortcut correctly, your machine will reboot to MS-DOS. Follow the onscreen instructions to run the game. When you are done playing, type EXIT from the DOS prompt and hit **Enter** to reboot into *Windows 95* (answer **Y** if prompted).

If you receive an error message, your drivers may not be present, or may not be entered correctly in the shortcut.

DOS Installation

ORIGIN does not support the use of disk compression utilities with these games. The use of disk compression utilities might cause them to be unplayable from your CD-ROM drive.

You can play both games directly from the CD, but you must first install some files to your hard disk and create a directory for your saved games. If you are playing from the CD, follow the instructions in DOS Installation step 9. See **Troubleshooting Questions** (pp. 20-21) for instructions on how to copy the entire game to your hard disk, should you choose to do so.

Each game must be installed individually. However, you can install one game now and the second game at another time, or both games now, one after the other.

While selecting options, you can press **[Esc]** to return to DOS, aborting the install process. Use **[↑]** and **[↓]** to highlight the option you want. Press **[Enter]** to select a highlighted option.

1. Insert the CD-ROM disk (label side up) into your CD-ROM drive.
2. Change to your CD-ROM drive (type its drive letter (usually, D:) and press **[Enter]**).
3. Type **ORIGIN** and press **[Enter]** to begin installation for *Underworld*. After installation is complete, you will be prompted to install *Underworld II*.
4. The program will list all available hard drives and will prompt you for the letter of the hard drive to which you want your system configuration data and saved games written. Press the letter on your keyboard corresponding to a hard disk with adequate space.
5. The next configuration option is Sound System Installation. This determines how music and sound effects will play during the game. Your choices are:

No Sound	Sound Blaster Pro	PC Speaker (UW1 only)
Adlib	SoundBlaster	Roland MT-32 or LAPC-1

Highlight the sound board you have — or no sound or PC Speaker (UW1 only) if you don't have a sound board — and press **[Enter]**. If you chose Roland MT-32 or LAPC-1, it will ask if you have a Sound Blaster or Sound Blaster Pro to use for digitized speech.

6. If you choose Sound Blaster or Sound Blaster Pro in Step 5 (either originally or after selecting Roland), you will have to tell the installation program the "Base IO" and "IRQ" setting for your sound card. If you have a Sound Blaster Pro, you will also need to know the DMA channel it uses. For example, the factory default settings are Base IO: 220H, IRQ 7 and DMA channel 1. (Some Sound Blaster models default to IRQ 5.) Use **[↑]** and **[↓]** to highlight each appropriate selection, then press **[Enter]**.

7. After you have chose your sound card, you will be shown your current settings. If the configuration is correct, select **[Y]** to continue. If it is incorrect, select **[N]**. If you select **[N]**, you begin again at Step 4.

When the Confirm Selections screen appears, you must decide if you want to copy the necessary files to your hard disk. If the configuration is correct, press **[Y]** to continue.

If the configuration is incorrect, press **[N]**. You can now begin again from the drive selection screen (Step 4).

8. After you select **[Y]**, the installation program will write the configuration information to your hard disk and prepare it to receive saved games. This process takes only a few seconds; almost all information is kept on the CD-ROM.
9. When the installation is complete, you automatically return to the prompt of your CD-ROM drive. You can now play either game you have installed.

* UW1: To play *Underworld*, type **uw** at the CD-ROM prompt.

** UW2: To play *Underworld II*, type **uw2** at the CD-ROM prompt.

(In the future, when you want to play either game, just repeat Steps 1, 2 and 9.)

10. If you've never played either game before, see **Reference Card** (p. 23) or the appropriate **Player's Guide** (online docs). Each begins with a tutorial and explains everything you need to know to play the game. If you have trouble, check **Troubleshooting** (pp. 11-21).

CHANGING YOUR CONFIGURATION

If you ever add a sound card or change from one card to another, simply re-run the installation program as described above.

Using the Online Documentation

Adobe *Acrobat* (for DOS or *Windows*) takes 4 MB hard drive space; it is also recommended that you have at least 4 MB RAM. It supports Postscript and LaserJet printers.

DOS USERS

If you have Microsoft *Windows* installed, we recommend that you install the *Windows* version of the Adobe *Acrobat* reader for greater ease of use when reading the on-line manuals. See below for instructions on installing *Acrobat* for *Windows*.

If you have already installed the *Acrobat* reader from another CD-ROM Classics title, it does not need to be re-installed.

To install the DOS Adobe *Acrobat* on-line document reader:

1. Insert the CD in your CD drive.
 2. Type the letter of your CD drive (usually D:) and press **[Enter]** to move to the CD drive.
 3. When you see the D: prompt, type **ORIGIN** and press **[Enter]**.
 4. You are asked whether you want to install *Ultima Underworld I* and then *Ultima Underworld II*. If you have already done this, press **[N]** to skip the *Underworld* installation and go to the *Acrobat* Reader installation.
 5. You are asked whether you want to install The *Acrobat* Reader for DOS. Press **[Y]** to install or **[N]** to stop installation. Follow the menu prompts to install the on-line documentation reader.
- To highlight a menu item, press **[↑]** / **[↓]**.
 - To activate the highlighted item, press **[Enter]**.

To Start Adobe *Acrobat* for DOS

1. The CD must be in the drive to run the program.
2. Move to the directory where Adobe *Acrobat* is installed. By default, it is installed in C:\ACRODOS, so you would type:

C: **[Enter]**

CD\ACRODOS **[Enter]**

3. Type **ACROBAT** **[Enter]** to start the program.

Note: If you receive an "ACROBAT.INI" error message when running *Acrobat*, see **Creating a Boot Disk** (p. 13).

WINDOWS USERS

System Requirements for *Windows*

386-or 486-based PC (486 recommended) 4 MB RAM

Microsoft *Windows* 3.1 or greater

To install Adobe *Acrobat* for *Windows*:

1. Insert the CD in your CD drive. The CD must be in the drive to install and run the program.
2. Start *Windows*.
3. From the *Windows Program Manager*, choose **RUN...** from the *File* menu. The *Run* dialog box appears.
4. Type D:\ADOBE\ACROWIN\ACROREAD.EXE
(If your CD-ROM isn't drive D:, substitute the appropriate letter for 'D'.)
5. Click **OK** or press **[Enter]** and follow the instructions on your screen.

To start Adobe *Acrobat* for *Windows*

1. Start *Windows* and ensure that the CD is in the drive.
2. If the *Acrobat* Reader 2.0 icon is not visible in the *Program Manager* window, double-click on the *Acrobat* program group icon. The *Acrobat* window opens.
3. Double-click the *Acrobat* Reader 2.0 icon. The program begins.

TO OPEN AN ONLINE DOCUMENT FILE

- Select **Open** from the *File* menu. (The online documents are on the CD-ROM Classics CD.) (*Windows*) Use the File Name: dialog box to select the directory of the file.
- (DOS) Double-click on the D: (or appropriate CD drive letter) from the *Drive* dialog box. (*Windows*) Type D: (or appropriate CD drive letter) and press **Enter**.
- Double-click on an online documentation file to open it. The files are:

UW1&UW2INS.PDF	Underworld I & II CD-ROM Install Guide.
UW1MAN.PDF	Underworld I Manual (Memoirs of Cabirus)
UW1MAP.PDF	Underworld I Map (Strygian Abyss Map)
UW1PG.PDF	Underworld I Player's Guide
UW1REF.PDF	Underworld I Reference Card
UW2MAN.PDF	Underworld II Manual (A Safe Passage Through Britannia)
UW2MAP.PDF	Underworld II Map (Labyrinth of Worlds Map)
UW2PG.PDF	Underworld II Player's Guide
UW2REF.PDF	Underworld II Reference Card

TO PRINT A DOCUMENT FILE

- Select **Print** from the *File* menu. Choose the range you want to print from the *Print Range* dialog box.
- If you receive an “*Acrobat* does not support printing at this device resolution...” message, increase the resolution in the *Print Quality* dialog box.
- In DOS, prior to printing, go into *Print Setup* from the *File* menu. Choose *Bitmap*, which will provide a list of available printer devices.
- The Adobe *Acrobat* Document Reader does not support 9-pin printers.

TO LEARN HOW TO USE ADOBE ACROBAT

- Open the file HELPREAD.PDF in the C:\ACRODOS directory on your hard drive.
- 10 Complete *Acrobat* instructions are contained in this file.

QUICK ACROBAT TIPS

- If you have difficulty viewing documents, click on the magnifying glass icon on the bottom of the screen to increase resolution.
- Each document file contains bookmarks that function as an electronic table of contents. To view bookmarks, select **Bookmarks** and **Page** from the *View* menu. The bookmarks appear to the left of the document window.
- To jump to a bookmarked page, double-click on the page icon next to the bookmark.
- To show or hide any subordinate bookmarks, click the triangle to the left of bookmark.
- To move through the document one page at a time click the PREVIOUS or NEXT PAGE buttons, or press **←** / **→**.
- To move through a document one screen at a time, click above or below the scroll box in the scroll bar or press **Page Up** / **Page Down**.

Troubleshooting

MEMORY REQUIREMENTS

Three types of RAM are referred to in this manual: DOS (conventional base RAM), extended and expanded. UW1 and UW2 have specific minimum requirements for each of these types of memory. If you are unsure about these different types of memory, consult your DOS manual.

To find out how much DOS, extended and expanded memory your computer has available, type MEM at the DOS prompt. Look for the following listings:

- **Largest Executable Program Size** (how much DOS memory is available)
- **Total Extended or XMS or Total Contiguous Extended** (the amount of extended memory in your computer)
- **Bytes Free of EMS or Free Expanded (EMS)** (the amount of expanded memory available to the program)

If any of the numbers listed on your screen are less than the requirements listed below, refer to **Optimizing Your System** (p. 13).

Ultima Underworld I Memory Requirements

Type of memory	Min. to run game without sound effects, music or speech	Min. to run game with internal (PC) speaker (sound effects only)	Min. to run game with speech, music and sound effects (sound card only)
DOS Base RAM (Conventional)	527,360 bytes	535,360 bytes	565,248 bytes
¹ Extended	1,024,000 bytes	1,024,000 bytes	1,024,000 bytes
Expanded	492,000 bytes	492,000 bytes	492,000 bytes

Ultima Underworld II Memory Requirements

Type of memory	Min. to run game without sound effects, music or speech	Min. to run game with speech, music and sound effects (sound card only)
DOS Base RAM (Conventional)	544,768 bytes	544,768 bytes
¹ Extended	1,024,000 bytes	1,024,000 bytes
Expanded	671,744 bytes	671,744 bytes

¹You must have a total of 1,024,000 bytes of extended memory on your computer to run either or both of these games. However, this memory must be converted to expanded memory by using an expanded memory manager in your CONFIG.SYS file. The most common expanded memory manager is Microsoft's EMM386.EXE (available in Microsoft DOS 5.0 or higher, or Microsoft Windows 3.1) If you are unsure how to load the expanded memory manager from DOS, refer to **Optimizing Your System**, p. 13.

OPTIMIZING YOUR SYSTEM

If you are experiencing problems running the *Underworld/Underworld II* CD-ROM games, it might help to create a separate boot disk or decrease the number memory-resident programs (TSRs) you have loaded with the suggested configurations listed below.

Do not delete your AUTOEXEC.BAT or CONFIG.SYS files completely — without them, your computer will not function.

Before creating a boot disk, we recommend that you generate a hard copy printout of your hard drive CONFIG.SYS and AUTOEXEC.BAT start-up files. To do so, at the DOS prompt, type:

TYPE CONFIG.SYS

Use **[Print Screen]** to generate a printout of this startup file.

Next, at the DOS prompt, type:

TYPE AUTOEXEC.BAT

Use **[Print Screen]** to generate a printout of this startup file.

Creating a Boot Disk

To create a separate boot disk, insert a blank high density disk in your A: drive. From the DOS prompt, type:

FORMAT A:/S **[Enter]**

Modifying CONFIG.SYS

When the DOS prompt returns and the format is complete, type:

EDIT A:\CONFIG.SYS **[Enter]**

When the new screen appears, type the commands shown on the following page. This configuration is generic and may require additional drivers. Consult your CD-ROM manual and printouts for more information.

CONFIG.SYS using DOS's EMM386.EXE

```
FILES=25
BUFFERS=25
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\EMM386.EXE 1024 RAM I=B000-B7FF
DOS=UMB
DOS=HIGH
SHELL=C:\DOS\COMMAND.COM /P
DEVICEHIGH=C:\<path>\<CD-ROM driver> <all parameters from the original
CONFIG.SYS>
```

(Refer to your hard drive CONFIG.SYS printout to fill in the blanks in the last line above.)

<sound card lines if any>
<mouse driver if applicable>

After Typing the CONFIG.SYS Commands

Acrobat Note: If you receive any "ACROBAT.INI" error messages from the DOS *Acrobat* document reader program, add or modify the following lines to the CONFIG.SYS file on your boot disk:

```
FILES=30
BUFFERS=30
```

After typing these lines, you should exit and save your file. Do so by typing:

```
[Alt] [F]
[X]
[Y]
```

Modifying AUTOEXEC.BAT

Next you need to edit the AUTOEXEC.BAT file on your boot disk. Type:

```
EDIT A:\AUTOEXEC.BAT [Enter]
```

When the new screen appears, type:

```
PROMPT $P$G
```

```
PATH=C:\DOS
```

```
C:
```

LH C:\<path>\MSCDEX.EXE <all parameters from the original AUTOEXEC. BAT with the following exceptions: delete the /S parameter and change /M:## to /M:5>

<mouse driver if applicable (e.g., C:\MOUSE\MOUSE)>

<sound card lines if any>

(Your mouse driver may need to be loaded differently. Refer to the printout of your original AUTOEXEC.BAT.)

Exit and save this file by typing:

```
[Alt] [F]
[X]
[Y]
```

To Use Your New Boot Disk

1. Turn your computer off, insert your new boot disk in the A: drive and turn the computer back on. (If your CD drive is external, turn it on.)
2. Insert the CD-ROM disk (label side up) into your CD-ROM drive.
3. Change to your CD-ROM drive (type its drive letter (e.g., D:) and press [Enter]).
4. * UW1: To begin playing *Underworld*, type: UW [Enter]
** UW2: To begin playing *Underworld II*, type: UW2 [Enter]

ORIGIN Product Support

If, after reviewing **Troubleshooting Questions** (pp. 17-21), you are still having a problem with your software, please read this section and call us. We have a staff of product support technicians ready to help you with any problems you may encounter with the game. Today's PCs run with many different hardware and software combinations, so you may also have to refer to your computer dealer, hardware manufacturer, or system software publisher in order to properly configure their products to run with our game. When you do call us, if at all possible, be near your computer. If this is not possible, have the following information ready:

- Contents of CONFIG.SYS
- Contents of AUTOEXEC.BAT
- DOS version and manufacturer
- The type and version of mouse driver
- The contents of CHKDSK and MEM /C statement
- Your CD-ROM drive type and CD-ROM extensions versions
- The error message displayed when the problem occurred (if any)
- The System Summary display from pressing F3 during installation
- Brand of sound card, and IRQ, I/O address and DMA setting of that card

Contact ORIGIN Product Support at (512) 434-HELP (434-4357), Monday through Friday, between 9:00 a.m. and 5 p.m., Central Time. (The phones are shut down from 12:45 p.m. to 2 p.m.) Times are subject to change.

The ORIGIN fax number is (512) 795-8014.

Or write to ORIGIN Customer Service, 5918 West Courtyard Drive, Austin, TX 78730

Internet. You can e-mail technical support questions to ORIGIN Customer Support at support@origin.ea.com.

You can reach the ORIGIN Marketing Department at marketing@origin.ea.com. You can also retrieve demos, patches, press releases and screen shots from ORIGIN's anonymous FTP site at ftp.ea.com/pub

check out <http://www.origin.ea.com>

TROUBLESHOOTING QUESTIONS

Q: Underworld or Underworld II generates an error code. What's wrong with my game?

A: Certain error codes can easily be interpreted and remedied:

A### (i.e. an "A" followed by three numbers) usually means a low file count.

- Your CONFIG.SYS file may need to be modified. If you get a message that reads "Internal Error" or "Underworld can no longer run. Error code A###," edit your CONFIG.SYS file so the line reading "FILES=##" reads "FILES=25" (or more). This should allow you to play the game. (See **Optimizing Your System**, p. 13.)

B### means low conventional (base) memory.

- Run the MEM program included with DOS to check your computer's available RAM. To do this, type MEM after the prompt for the drive in which the game is installed. Consult the "Largest executable program size" line (third to last line). UW1 requires 565,248 bytes for all options and UW2 requires 581,632 bytes for all options. Free up RAM if needed or make a new floppy boot disk. (See **Optimizing your System**, p. 13.)

C### means a problem with expanded (EMS) memory.

- You may be using a non-compatible memory manager. UW1/UW2 requires a LIM4.0 EMS or 100% compatible driver. You should use Microsoft's DOS EMM386.EXE (on a machine with Windows 95 EMM386.EXE is found in the WINDOWS directory). This error may also indicate that you do not have enough expanded memory allocated to run this game. Consult **Memory Requirements** and **Optimizing Your System** (pp. 11, 13).

E### means that you don't have enough hard disk space — you must have at least 2 megs free to install and play either game, even if you're playing it directly from the CD.

- You may have chosen an invalid configuration during the install process. Check your configuration and if necessary, re-install the game.
- You may have filled all free space on the active hard drive. Use the DOS DIR command to check available hard drive space. You need at least 2 megabytes for saved games and temporary files.

Q: My mouse is not working with UW/UW2 CD-ROM. My mouse works with all of my other software applications — why not with UW/UW2?

A: If your mouse is not working with UW/UW2, you should first check to see if your mouse has been loaded in DOS (in your AUTOEXEC.BAT file) or onto the boot disk, or short cut, you are using to play the game. *Windows* and many other “multitasking” environment load their own built-in mouse driver. These mouse drivers will not operate outside of their shell environment. Loading a mouse driver into the DOS environment can be as simple as typing MOUSE **[Enter]** at the command prompt. For example,

C:\MOUSE **[Enter]**

This command can differ depending on which mouse driver software you are using. Please consult your mouse user’s guide for further details.

Some rare combinations of hardware and software cause mouse conflicts that freeze the on-screen pointer. If your mouse pointer ever stops moving, press **[Alt F4]** to free the mouse and allow the pointer to move normally, or get a Microsoft mouse driver version 7.0 or higher.

Q: When I try to run the game, I get a message that says “Sound System Initialization Failed.”

A: You probably have enough memory to run the game, but not enough to load the sound drivers you selected during installation. You will either have to increase the amount of free DOS memory (see **Optimizing Your System**, p. 13) or play without sound.

Or if your sound card is not one of the cards listed on the box or in the installation program, but is 100% compatible with one of the cards listed, it may need to be configured for Sound Blaster emulation mode. Consult your sound card manual.

Q: (UW1 only) When I select PC Speaker sound effects all I get are “Beeps” and “Boops.”

A: There’s nothing wrong with your speaker or your game. The PC speaker sound effects aren’t intended to be realistic. They do, however, provide important feedback (whether you hit a creature in combat, for example). The best answer is to upgrade your system with a sound card. (The installation menu lists the cards supported by *Underworld*.)

If a system upgrade is impossible and you would rather play without sound, select the OPTIONS icon from the main game screen, followed by the SOUND option. Turn the sound off and return to the game.

Q: Is it possible to play different characters in different games?

A: Each game allows you to save up to four different games at once. For each game, you can save four different points in a single adventure. You can also save one character’s adventure in the first saved game slot, another character’s adventure in the second slot and so on. Any combination of characters and saved game slots is possible (up to the maximum of four per game). Note that you cannot transfer a UW1 character into UW2, or vice versa.

Q: The game runs too slowly.

A: Your computer may not be fast enough to run the game efficiently. The minimum configuration is a 386SX with a 16 MHz processor — but movement and animation are faster and smoother on a faster computer. From the main game screen, select the OPTIONS icon, followed by DETAIL. Experiment with the various detail levels until you find a balance between speed and detail that suits you.

Q: I’ve tried to save my game, but I keep getting a message that says “SAVED GAME FAILED.”

A: Each saved game can take up to 500K of hard disk space. If you don’t have that much available, you can’t save. To get around this, you can save your new position over an existing saved game. Select the OPTIONS icon from the main game screen, followed by the SAVE GAME option. Then, simply select a saved game slot you’ve already used. When you are asked to enter a name from the game, press Enter to use the same name as the old game, or type in a new one. In addition, you must have 700K (UW1) or 1200K (UW2) of free hard disk space available when you begin a mission.

Q: My Sound Blaster beeps before playing digital effects.

A: Under OS/2 old Sound Blaster ROM (1.5) will cause this. Reinstalling without digital effects will fix this, though you will lose digital effects. We recommend operating under a DOS 5.0 or higher environment.

Q: *When I start, the music sounds very odd on my Sound Blaster Pro.*

A: Early versions of the Sound Blaster Pro require different configurations than later versions. To correct this, run the SET-ENV program that came with your Sound Blaster Pro. This will automatically set the environment variable properly. If this doesn't work, this variable can be set manually. Consult your Sound Blaster Pro docs or your hardware dealer for more information.

Q: *(UW2 only) I am having trouble using my joystick.*

A: Your joystick may be set to "auto fire". If this is the case, you have difficulty moving your character and the buttons may not function as you expect. To correct the problem, turn auto fire off. If your joystick doesn't allow you to turn auto fire off, unplug it and play with a mouse or use the keyboard controls.

Q: *(UW2 only) I seem to spin around even when I am not touching the mouse, joystick or keyboard movement keys.*

A: This can be caused by a miscalibrated joystick. Press **Ctrl J** and follow the instructions on screen to calibrate and center your joystick. If you cannot get the joystick correctly calibrated, you will have to unplug it and play with the mouse or the keyboard controls.

Q: *Why does my computer crash when I try to play UW/UW2 through Microsoft Windows 3.1 (or OS/2, Desqview or DOS 5.0 Task Swapper)?*

A: "Multi-tasking environments" — *Windows 3.1, Desqview, Software Carousel, DOS 5.0 Task Swapper* and so forth — often conflict in their use of memory and other system resources with UW/UW2 CD-ROM. We do not recommend playing UW/UW2 under these circumstances. Even if you do run the game under a multi-tasker, do not swap to another application while playing. Your system will crash if you try to suspend UW/UW2 to run another program. In general, we recommend that you log out of *Windows* (or similar applications) and play from the DOS prompt.

Q: *How do I manually install Underworld I and II to my hard drive?*

A: To copy the CD version of *Underworld I & II* onto your hard drive, follow these steps:

1. Make sure you have at least 13 megabytes of hard drive space available for each game.
2. For *Underworld I*, type `XCOPY D:\UW C:\UW /E/S` **[Enter]**. This will copy all of the necessary files to a \UW directory on your hard drive. (This assumes your CD drive is D: and your hard drive is C: — if not, substitute the appropriate drive letter in the above entry.) For *Underworld II* follow the same procedure, changing \UW to \UW2 (twice).
3. When the files have finished copying, change to your newly created C:\UW directory and type `UINSTALL` **[Enter]**. This will begin the *Underworld* configuration process. (For UW1 only, at the option for SELECTING CUT SCENES STATIC OR ANIMATING, select ANIMATING. STATIC will not work.) Follow the same procedure for *Underworld II*, change to the C:\UW2 directory and type `UNINSTALL` **[Enter]**.
4. After completing the configuration, type `UW` **[Enter]** (from the C:\UW directory) to begin playing *Underworld I*. To begin playing *Underworld II*, type `UW2` **[Enter]** from the C:\UW2 directory.

To order the printed manual, please send this form along with check or money order for \$5.00 (US\$, drawn on US or Canadian bank) to:

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Ultima Underworld I & II

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Reference Card

Install the game, following the directions above. Change to the CD-ROM drive (usually D:) and type * UW **[Enter]** / ** UW2 **[Enter]** to begin play.

The first time you play, typing * UW / ** UW2 takes you to the title screens, followed by the introduction. Press **[Esc]** to bypass the titles and/or introduction and go to the Main Menu.

If you have played (and saved) the game, * typing UW takes you to the Main Menu.

** Typing UW2 takes you to the title screens, and then the Main Menu.

MAIN MENU

To select an option with the mouse, click on it. With the keyboard, use the arrow keys to highlight it, then press **[Enter]** to select it.

Create Character. Choose before you begin a new game. Use the mouse or arrow keys and follow the directions on-screen to make selections.

Introduction. Allows you to watch the introduction. (Press **[Esc]** to exit at any time.)

Acknowledgements. Lists the people who created *Ultima Underworld I & II*.

Journey Onward. If you have saved games, a list appears when you select Journey Onward. Move the pointer to the game you wish to play and click either button. (With the keyboard, use the arrow keys to highlight your choice and press **[Enter]**.)

MAIN GAME SCREEN

When you Journey Onward, the main game screen appears.

3-D View Window. The view window shows what you see. When you are:

<i>Moving</i>	the view changes	<i>Taking damage</i>	the window shakes
<i>Drowning</i>	the screen flashes blue	<i>Critically wounded</i> ...	the screen flashes red
** <i>When you wear or use a cursed item or a spell backfires</i> , the screen flashes orange.			

Normally, you look straight ahead, but you can look up and down:

To look down, press [1] repeatedly. To look up, press [3] repeatedly. To return to the “straight ahead” position, press [2].

Character Panel. Actually three panels share this position — you can switch at will.

- The **inventory panel** shows all items you are carrying and wearing. From this panel:
- Left-click the runebag in your inventory to flip to the **rune display**. Your rune display shows all of the runes you own. Click on the pull chain to return to the inventory panel.
- Click on the pull chain for the **statistics panel**. Click again to return to the inventory panel.

* On these panels, the right mouse button triggers the action specified by the command icon selected; the left button selects, moves or uses an object.

** On these panels, the right mouse button triggers the action specified by the command icon selected and, when dragged, moves an item; the left button selects or uses an object.

Vitality and Mana Flasks. Shows your current Vitality or Mana as compared to your maximums. If the Vitality flask is green, you are poisoned.

Rune Shelf. Click on runes in your rune display and they appear here. Click on a rune here to cast the spell represented by the runes on the shelf.

Compass. The * red dot / ** silver arrow-tip always points north. Clicking on the compass itself gives you an indication of your character's condition and overall situation. * Use the arrows on the base of the compass for Easy Move mode.

Message Scroll. Displays messages and results of commands.

Power Gem glows red, then yellow (*), green, and sparkles as you put more power into an attack.

Current Spells. Icons represent active duration spells.

Command Icons. Accesses the game option panel, and determines whether the right mouse-button allows you to Look, Get, Use, Fight or Talk.

Gargoyle. Above the view window is a gargoyle. During combat, the glow in its eyes changes as the condition of your foe changes:

24 *Green* eyes — foe is still strong *Yellow* — foe is hurt *Red* — foe is seriously injured

MOVEMENT

Walking, Running, Swimming. Press and hold the left mouse button while the cursor is in the 3-D view window. The further from the center of the window your cursor is, the faster you move. The shape of the cursor determines direction:



Forward



Backward



Turn right or left while moving forward



Turn right or left with no forward movement



Sidestep right or left

** Swift-moving water and slick ice may make movement difficult and may even cause you to move in a direction you didn't want to go!

Jumping. Press the right mouse-button while the left button is down. (In Fight mode, press [J] (* or [Shift][J]) on your keyboard.) Your speed determines how far you jump:

Standing still, you jump straight up. You jump forward if you press [Shift][J].

- Moving, you jump in the direction of your movement; jump distance increases with speed.

Flying. Cast a *Fly* or *Levitate* spell, or use an appropriate magic item. Use [E] to rise into the air. Use normal movement commands to determine your direction. Use [Q] to lower yourself.

INTERACTING WITH THE WORLD

QUICK MODE. If no icons are highlighted, you are in Quick Mode. (To “un-select” a highlighted icon, click on it.)

Talk. Put the cursor on the person or creature and briefly right-drag the mouse.

Get. Position the cursor on the object, press and hold the right mouse-button. If the object is “get-able,” it will be put in-hand when you drag the object somewhere on the screen. Release the button to drop the item.

Look. Right-click on the creature or item you want to examine.

Fight. Move the cursor to your inventory and click on the weapon in your weapon-hand. Click on the weapon again to exit Fight mode.

Use. To Use an object in your inventory, left-click it. To Use an object in the view window, position the cursor on the object, and briefly right-drag it.

Note: To access the game options menu you must click on the Options icon or press the appropriate keys on the keyboard.

ICON MODE. Use the right mouse-button to interact with things in the world. The command icons determine what the right button does.

Options Icon. Click on this to bring up a list of game-related functions and to pause the game. Click on the function you wish to access:

- *Save Game.* Preserves your current game state. You can have up to four saved games at once. Each saved game requires about * 300K / ** 500K of hard disk space. Always save before ending a game session.
- *Restore Game.* Begins the game at a point you saved. Click on this option, then on the roman numeral that matches the name of the saved game.
- *Music.* Toggles music on or off.
- *Sound.* Toggles sound effects on or off.
- *Detail.* Increases or decreases the level of graphic detail.
- *Return to Game.* Resumes play when you're done selecting options.
- *Quit Game.* Returns you to DOS. (This does not save the game.)

Talk Icon. Left-click this icon, then right-click the character you want to talk to.

Get Icon. Left-click this icon, then right-click the object you want to pick up.

Look Icon. Left-click this icon, then right-click the object or area you want to look at.

Fight Icon. Left-click this icon. To attack, right-click and hold until you're ready to attack, then release the right button.

Use Icon. Left-click this icon, then right-click the object you want to Use. For actions that require a target, left-click this icon, then right-click the object you wish to Use (putting it "in-hand"). Move the object in-hand over the "target" object and right-click again.

HEALING

To regain lost Vitality (or shake off the effects of poison), you must eat and sleep, or cast healing magic. No healing magic restores Mana. The spells which restore Vitality are *Lesser Heal*, *Heal* and *Greater Heal* (in order of the amount of Vitality they restore). *Cure Poison* has no effect on Vitality, but reverses the effects of any toxins in your character's system. *Restoration* restores all Vitality, and it also negates poison, hunger, paralysis and fatigue.

To regain Vitality and Mana, you must sleep. Press **[F10]** or Use a bedroll. When you awaken, you regain some percentage of lost Vitality and Mana. If you are hungry, or you have slept very recently, sleep does less to revitalize you.

MAGIC

Magic requires three things:

Mana. The Mana point cost of a spell is triple the Circle of the spell.

Character Level. Your character level, halved and rounded up, must equal or exceed the Circle of the spell.

Rune Stones. The rune stones required to cast each spell are listed below.

Casting Spells. If these three conditions are met, you can attempt to cast a spell. To do so, click on the rune bag in your inventory, then click on each rune required to cast the spell, in order. When the runes appear on the rune shelf, left-click anywhere on the rune shelf.

Targeting Spells. Some spells must be targeted. When you left-click the rune shelf to cast such a spell, a targeting cursor appears on screen. For combat spells, the targeting cursor is a red circle. For non-combat spells, the cursor is a blue cross.

When a targeting cursor appears, position it on the person, creature or object you wish to target, then right-click to unleash the spell. (You may or may not succeed.)

Eight Circles of Runic Magic Spell List (See p. 31)

COMBAT

Hand Weapons

1. Click on a weapon in your weapon hand (or on the Fight icon) to enter Fight mode.
2. Put the cursor in the view window to select an attack type. (See “Types of Attack,” below.)
3. Hold down the right button until the weapon is drawn back (You can continue to move by pressing the left button while the right button is pressed.)
4. With the weapon drawn back, the Power Gem begins to brighten, indicating how much power you are putting into the attack.
5. Release the mouse button to attack. (If the gem is still * red / ** dark green when you release the button, your attack is aborted.)

Types of Attack

Press the right button when the Cursor is — high in the view window to **Bash**.
— in the middle of the view window to **Slash**.
— low in the view window to **Thrust**.

Missile Weapons

1. Ready a missile weapon by placing it in your hand on the Inventory panel. Make sure you have ammunition in your inventory. Enter Fight mode.
2. Press and hold the right mouse button to initiate an attack (screen location doesn't matter).
3. When the jewel is green, your weapon is ready to shoot and a red, circular cursor appears.
4. Move the cursor where you want to aim your weapon.
5. Release the mouse button to unleash the attack.

PAUSING THE GAME

Click on the Options icon to pause the game and brings up a menu of options. To unpause, click on “Return to Game.” Alternatively, press * **[F1]** / ** **[F6]** to pause, **[Esc]** to unpause.

CONVERSATION

1. Click on the Talk icon.
2. Put the cursor over the character you wish to talk to, then press the right mouse button to bring up the conversation screen. The other person's comments appear on the large scroll in the center of the screen. Your response options appear on your message scroll.
3. Move the yellow cross onto the option you want and click either button (or press the number of the statement you want to make).
4. Read the other person's response and pick one of your own. If you see the word “[MORE]” at the end of a comment, click either mouse button or press any key to see the rest of what the other person has to say. If you see the word “Other” in your list of choices, you have the option of typing in something that isn't on your list.
5. If you have the last word in the conversation, you return to the main game screen automatically. Otherwise, click either mouse button or press any key.

Bartering

1. Select the option on your conversation option list that says you want to trade items.
2. Get items you are willing to trade and put them in your barter area.
3. Click on items in either barter area to select or deselect them for the current trade.
4. Offer the deal by clicking on the appropriate menu line, or click on “I must think about this deal” to use your appraise skill.
5. If the person or creature with whom you are trading accepts the deal, any items you offered disappear into your trading partner's inventory. Now, you may move traded items from his barter area into your inventory.
6. If the deal isn't accepted, you can change the items in either barter area and try again.
7. At the end of a session, any items that now belong to you appear on the floor in front of you.

Giving and Getting Items

1. Place the item you wish to give or show in your barter area.
2. Select a conversation option like “I wish to give you this gift.” The character takes the item from your barter area, or simply looks at it, depending on the circumstances.
3. If you are given something, it appears on your cursor, and you can place it in your inventory.

Repairing Items

Some characters offer to repair items. To have a broken item repaired, place it in your barter area before you select the option requesting the repair.

To repair damaged weapons or armor yourself:

1. Use an anvil as you would any item.
2. When your cursor turns into an anvil, click on the broken item.
3. A message tells you how difficult the repair will be and asks if you want to continue.
4. Select "Yes" or "No."

AUTO-MAP

Use the auto-map parchment to bring up a full-screen map. Your position is indicated by a pushpin. Usually, the map updates itself automatically as you explore, but you can get lost.

**** Changing Views.** Click either mouse button on a facet of the gem on the right-hand side of the map to bring up an image of the world represented by that facet. Click on the castle in the center of the gem to bring up the map of Lord British's castle.

To view maps of different levels in a given world, click either mouse button on the upper- and lower-right corners of the map until the level you want is displayed.

Notes. Move the quill-shaped cursor until it is pointing where you want your note to appear, click either mouse button and begin typing. To end, click again, or press **[Enter]** or **[Esc]**.

To erase a note, move the cursor over the eraser, click either mouse button, move the eraser over the note you want to erase and click either mouse button.

Exiting the map. To return to the game, click on the "Close" scroll or press **[Esc]**.

EIGHT CIRCLES OF RUNIC MAGIC Spell List (Facing Page)

KEYBOARD & JOYSTICK CONTROLS (Back Cover)

First Circle

Create Food	IMM
Light	IT
Magic Arrow	EP
Resist Blows	BH
Stealth	HD

Second Circle

Cause Fear	PL
Detect Monster	MM
Lesser Heal	IBM
Rune of Warding	IP
Slow Fall	RMK

Third Circle

Conceal	BHT
Lightning	EX
Night Vision	PT
Speed	RTK
Strengthen Door	HD

Fourth Circle

Heal	IM
Levitate	PK
Poison	IM
Remove Trap	EP
Resist Fire	HT

Fifth Circle

Cure Poison	FT
Fireball	KP
Missile Protection	XHK
Name Enchantment	ENM
Open	MA

Sixth Circle

Daylight	AIT
Gate Travel	ARK
Greater Heal	AIM
Paralyze	FMK
Telekinesis	EKA

Seventh Circle

Ally	IMR
Confusion	AFN
Fly	ADK
Invisibility	AHT
Reveal	EPF

Eighth Circle

Flame Wind	PD
Freeze Time	FT
Iron Flesh	IAH
Roaming Sight	EKN
Tremor	AKA

Menus

[↑]	Up to next option above
[↓]	Down to next option below
[←]	Left one column (if 2-column)
[→]	Right one column (if 2-column)
[Pg Up] / [Home]	Top of List
[Pg Dn] / [End]	Bottom of List

Normal Movement

[W]	Run Forward
[S]	* Walk Forward
[A] / [D]	Turn Left / Turn Right
[X]	Walk Backwards
[Shift] + key	* Easy Movement (any above)
[Z] / [C]	Slide Left / Slide Right

Other Movement

[E] / [Q]	Fly Up / Fly Down
[1]	Look Down
[2]	Center View
[3]	Look Up
[J]	Jump
[Shift] [J]	Standing Long Jump

Cursor Movement Keys

(in game and on auto-map)

[Tab]	Move cursor one hot area right
[Shift] [Tab]	Move cursor one hot area left

** Joystick Controls

Joystick	Movement
Button #1 + Joystick	Cursor
Button #2	Right Mouse Button

Special Function Keys

* [F1] / ** [F6]	Game Options/Pause Game
* [F2] / ** [F4]	Talk Mode
[F3]	Get Mode
* [F4] / ** [F5]	Look Mode
* [F5] / ** [F1]	Fight Mode
* [F6] / ** [F2]	Use Mode
[F7]	Flip Character Panel
[F8]	Cast Spell
[F9]	Use Track Skill
[F10]	Sleep

Game Options

[Ctrl] [S]	Save Game
[Ctrl] [R]	Restore Game
[Ctrl] [M]	Toggle Music on/off
[Ctrl] [F]	Toggle Sound Effects on/off
[Ctrl] [D]	Change Detail Level
[Ctrl] [J]	** Calibrate/Center Joystick
[Alt] [H]	** Reverse Mouse Buttons
[Alt] [Q]	** Save screen as .GIF file
[Esc]	Return to Game
[Ctrl] [Q]	Quit Game

Numeric Pad

[1-9]	Cursor Direction
[0] / [.]	Left / Right Mouse Button

Combat Mode Keys

[P]	Bash
[/]	Slash
[>]	Thrust