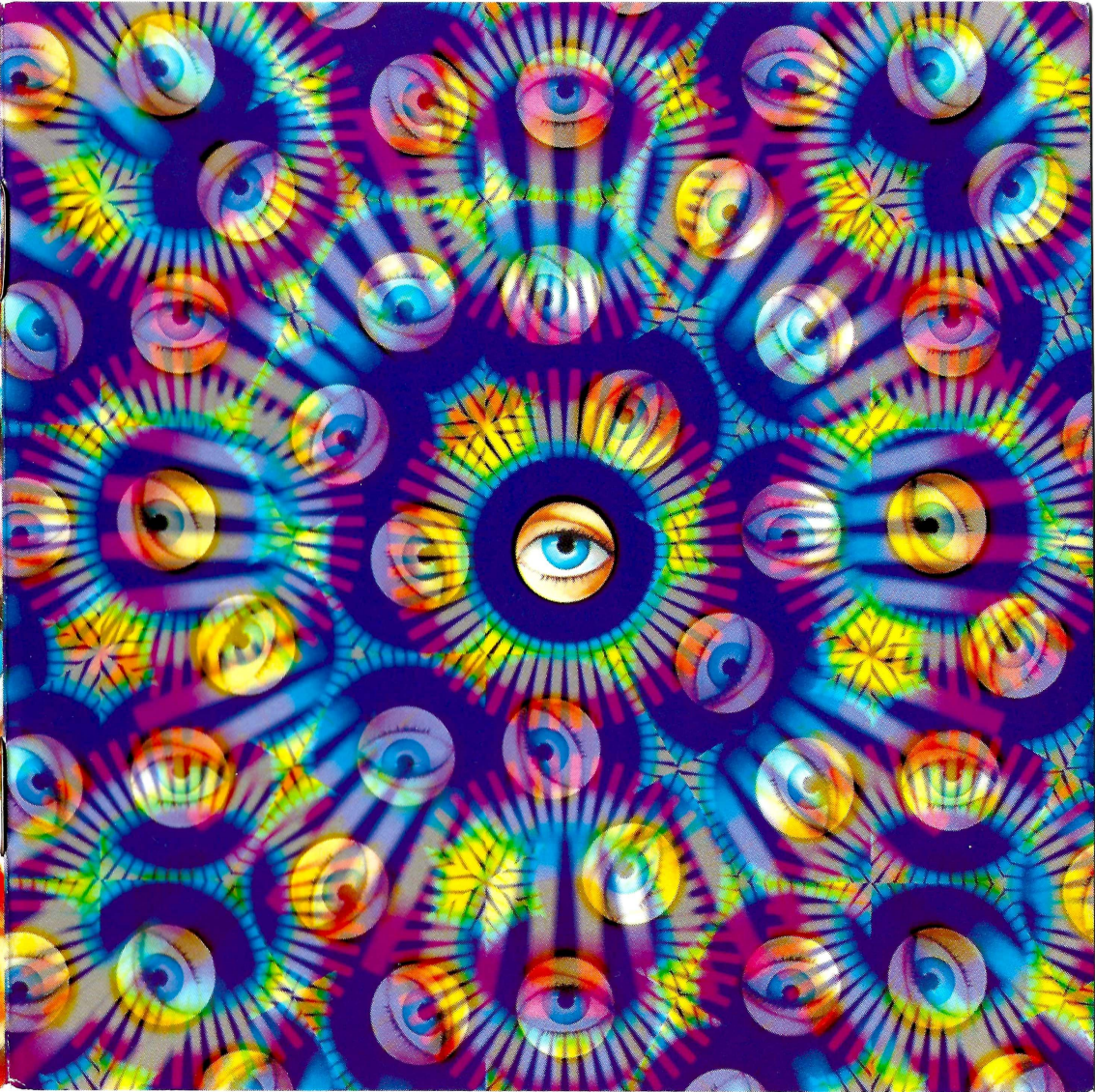
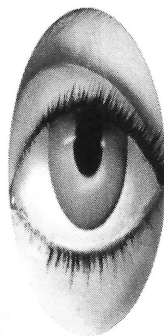


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HEADCANDY

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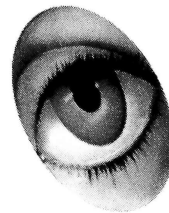
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INSTALLATION

THIS SECTION TELLS YOU THE HARDWARE AND SOFTWARE REQUIRED FOR HEADCANDY, HOW TO INSTALL AND START HEADCANDY AND HOW TO IDENTIFY AND CORRECT CONFLICTS WITH OTHER SOFTWARE OR HARDWARE. THE HEADCANDY SOFTWARE IS EASY TO USE, BUT CERTAIN HARDWARE AND SOFTWARE IS REQUIRED. PLEASE READ THROUGH THIS SECTION COMPLETELY BEFORE INSTALLING AND USING HEADCANDY.

HARDWARE REQUIREMENTS

- Macintosh 68040 Quadra 605 or better
- PowerPC Compatible
- 256 Color Display (640 x 480)
- Double Speed CD-ROM capable of 280k per second sustained data transfer
- 8 MB RAM

SOFTWARE REQUIREMENTS

- System 7.1
- QuickTime™ 2.0 (included on disc)
- Sound Manager 3.0 (included on disc)

TO INSTALL HEADCANDY:

1. Insert the CD into the CD-ROM drive.

2. For viewers who prefer full-screen video playback:

Because full-screen video requires the full attention of your computer's processor, we recommend you temporarily disable your AppleTalk or network connections, turn off virtual memory, file sharing, or software disc caching for your CD-ROM, and disable all unnecessary extensions.

REMEMBER: QuickTime 2.0 and Sound Manager 3.0 are both required to run HEADCANDY.

In addition, full-screen video playback may not work on video monitors connected to nuBus cards due to nuBus access speed limitations. If your computer is equipped with internal video, we recommend that you connect your monitor to it. If you have multiple monitors, set the menu bar to the internal video and restart your computer.

3. For viewers who want to watch HEADCANDY without altering their computers, HEADCANDY offers quarter-screen video playback capability. To view HEADCANDY in a smaller window, simply hold down the "shift" key and click on one of the spheres on the menu screen.

4. On the **HEADCANDY** disc is a folder labeled "Drag Contents to System Folder." This folder contains QuickTime 2.0, Sound Manager 3.0, the QuickTime PowerPlug (required only for Power Macintoshes), QuickTime Musical Instruments, and the Sound control panel.

NOTE: Sound Manager 3.0 is already included on the ROM of the following AV Macintoshes: Centris 660AV, Quadra 660AV, Quadra 840AV. **DO NOT INSTALL SOUND MANAGER ON AV MACINTOSHES.**

If you're not sure whether you have the latest version of QuickTime or Sound Manager installed, please drag the files from the disc into your System folder icon (not the open folder). A dialog box will appear asking if you want these extensions to be placed in the proper folder. Click OK.

If you get an error message that says: "You cannot replace the system extension "QuickTime™" because it is in use." you will need to drag the older version of QuickTime out of your System folder. Once you have done this, drag QuickTime 2.0 into the Extensions folder inside your System folder.

NOTE: Most applications are compatible with QuickTime 2.0. However, if you have an application that requires an older version of QuickTime, we recommend that you drag the older version out of your Extensions folder into any other folder before installing QuickTime 2.0. Should you need to run an application in the future that requires your older version of QuickTime, you'll need to drag QuickTime 2.0 out of your System folder, replacing it with the older version.

5. Once QuickTime 2.0, Sound Manager 3.0, and the other files have been copied to your System folder, restart your computer. If you are using a Power Macintosh, make sure you drag the QuickTime PowerPlug file from the **HEADCANDY** disc to your System Folder icon, then restart your computer. You're now ready to run **HEADCANDY**.

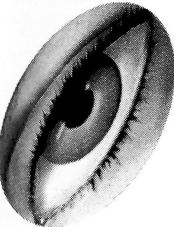
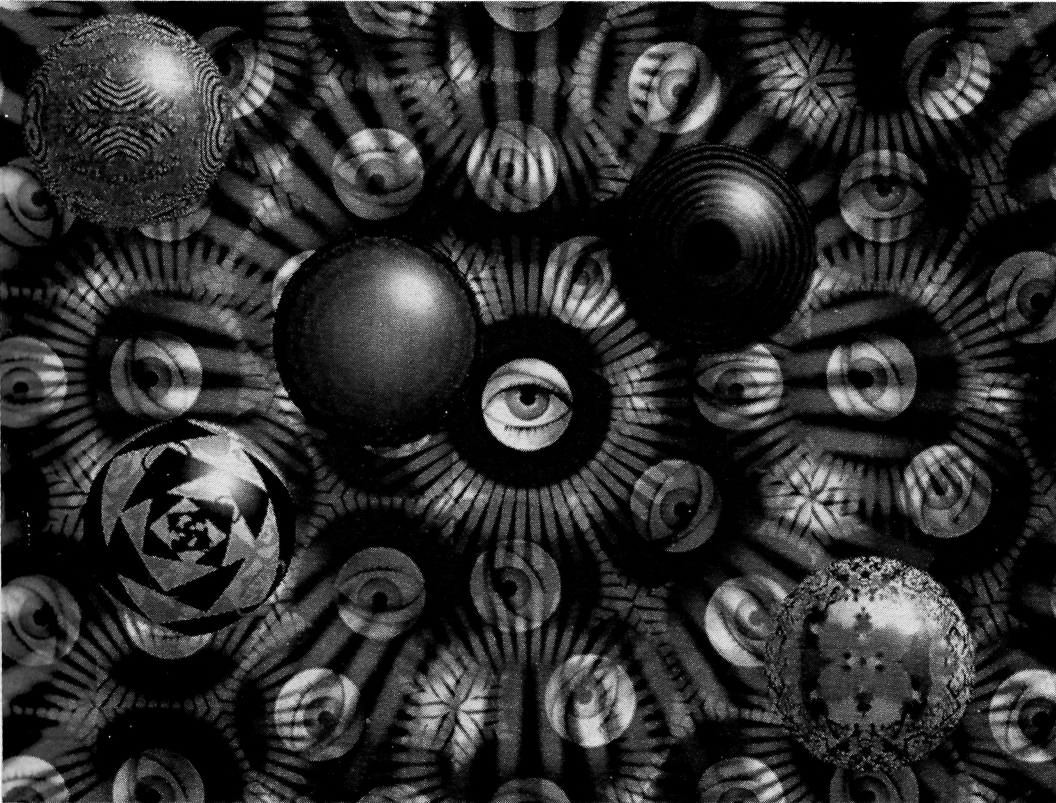
NOTE: **HEADCANDY** can be run entirely from the CD-ROM, but for maximum performance, we recommend that you copy the **HEADCANDY** application to your hard drive (approximately 2MB of free space on your hard drive is required). Then run **HEADCANDY** by double-clicking the **HEADCANDY** icon on your hard drive, instead of on the CD-ROM.

NOTE: Open the **README** file for important late-breaking information about **HEADCANDY**.

For further instructions on using **HEADCANDY**, please refer to the Exploring **HEADCANDY** section.

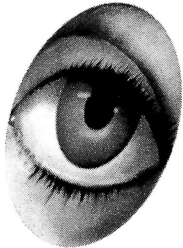
If you are experiencing difficulties with **HEADCANDY**, please turn to the Configuration & Troubleshooting section.

➡ **PLEASE FILL OUT THE ENCLOSED REGISTRATION CARD AND RETURN IT TO ION. THE INFORMATION YOU PROVIDE HELPS US CREATE BETTER PRODUCTS IN THE FUTURE. THANK YOU!**



EXPLORING **HEADCANDY**

WELCOME TO **HEADCANDY**, ONE OF THE FIRST DIGITAL ENTERTAINMENT PRODUCTS TO OFFER FULL-SCREEN VIDEO ON A MACINTOSH WITHOUT THE USE OF ACCELERATION HARDWARE. TO MAKE A MOVIE SELECTION, CLICK ON ONE OF THE FLOATING SPHERES. FOR CONTINUOUS RANDOM PLAYBACK, CLICK ON A FLOATING SPHERE WHILE HOLDING DOWN THE "OPTION" KEY. TO RETURN TO THE MOVIE SELECTION INTERFACE AT ANY TIME WHILE A MOVIE IS PLAYING, SIMPLY CLICK YOUR MOUSE.



ABOUT THE MUSIC

1. CASTRO HAZE (6.50)
2. MANILA ENVELOPE (7.20)
3. SPUNK WORSHIP (5.50)
4. BEAST (5.50)
5. ALLOY BALCONY & JETS OVERHEAD (14:00)

All tracks written and recorded by BRIAN ENO, except tracks 2 & 4, which were written by BRIAN ENO and ROBERT FRIPP. Additional musicians: Richard Bailey - Drums on 1 & 3; Robert Fripp - Trumpet Guitar on 2 and Guitars on 4; Geoffrey Oreyama - Percussion on 2. BRIAN ENO appears courtesy of Opal Ltd. Published by Opal Music (except in N. America by Upala Music Inc./BMI) © & © Opal Ltd. 1994



ABOUT THE ARTISTS

BRIAN ENO

BORN: MAY 15, 1948 WOODBRIDGE, SUFFOLK, UNITED KINGDOM

Fondly referred to by the music press as "Professor Eno," Brian Eno's public career started in the early 1970s as Roxy Music's androgynous synthesizer star. Since then, Eno's pioneering approach to both art and recording has made him one of rock's most enduring artists and sought-after producers. He has worked with David Bowie, Devo, Ultravox, Carmel, John Cale, Talking Heads, and Laurie Anderson.

Together with Daniel Lanois, Eno produced U2's "The Unforgettable Fire," "The Joshua Tree" and "Achtung Baby." Their "Zooropa" album, however, is probably the most Enoesque of his U2 productions to date (co-produced with Edge and Flood). Eno was also involved in the conception and creative production of U2's 'Zoo TV' ('92) and 'Zooropa' ('93) tours.

Over the last two decades, Eno has released a number of his own recordings—from the proto-punk "Here Come the Warm Jets" ('73), the brilliant album of song and instrumental miniatures "Another Green World" ('75), and "Music for Airports" ('78), to his masterful tapestry of ethnic and 'found sounds' interwoven with voice and sampler on the collaboration with David Byrne, "My Life in the Bush of Ghosts" ('81). Meanwhile, with his release of "Discreet Music" ('75) and "On Land" ('82), Brian Eno was establishing what is now commonly referred to as the Ambient movement.

Outside of the 'rock' music milieu, Brian Eno has forged another equally influential and impressive career as a video artist. Fascinated by the medium's potential to 'paint with light,' Eno first turned to video in 1978. Since then, he has staged more than 100 installations in public spaces around the world.

In 1983, Eno began to conceal monitors inside three-dimensional sculptures and paintings constructed out of perspex and card, using video monitors as a way of illuminating the pieces from within. Visitors to these darkened installation spaces found themselves slowing down to the rhythms generated by Eno's illuminated creations.

Throughout his career, Eno has lectured extensively on such varied topics as 'The Studio as a Compositional Tool,' and more recently on various aspects of culture, including High and Low Art, perfume, haircuts and defense.

Eno is a member of the Global Business Network, an international computer-networked think-tank comprised of artists, intellectuals, scientists and businessmen.

CHRISTOPHER JUUL

BORN: SEPTEMBER 10, 1968 FOND DU LAC, WISCONSIN

As a student of fine arts and film at Columbia College in Chicago, Christopher Juul spent countless hours experimenting with art and video. According to Juul, it was purely through random experimentation that he discovered how to achieve the dynamic visual effects displayed in HEADCANDY. "What I did was hook up my home video camera to my television monitor, then point the camera directly into the monitor. Next thing I knew, when I looked at the monitor, I saw wild geometric patterns—reflections of the camera actually filming itself!" Soon after, Juul was introduced to Douglas Jipson, a video whiz with a sophisticated production studio that made it possible to enhance the special effects already achieved by Juul.

DOUGLAS JIPSON

BORN: JULY 8, 1960 SPENCER, IOWA

Jipson's experience includes over a decade of producing, directing, and editing television shows and commercials in Clearwater, Florida. After meeting Christopher Juul, Jipson set out to use video as an art form that interprets music visually. His experiments soon began using all the resources available to him at his production studio, including Lightwave 3D on the Amiga Toaster, a 32-bit Targa board, two channels of digital video effects, live action, miniature models, and motion control. In the end, Jipson discovered that he could combine video and computer technology to create a new form of entertainment: 'Visual Music.'

OPTIMAL VIEWING TIPS

There are many ways to enhance your enjoyment of HEADCANDY; first and foremost, make sure that you view HEADCANDY in a completely darkened room. Secondly, while HEADCANDY can offer users an illuminating solitary experience, it's guaranteed to be a hit at parties. To purchase extra glasses use the order form provided on the program disk.



VIEWING DISTANCE

The farther you stand from your monitor, the greater the number of images the prismatic glasses will enable you to see. We recommend that you view HEADCANDY from at least seven feet and as much as 20 feet, depending on the darkness of the room, brightness of the monitor, and size of the monitor. The darker the room and bigger the monitor, the farther away you'll want to stand.

SCREEN DEPTH. If your monitor is set to thousands of colors, HEADCANDY's visuals will be richer than if it were set to 256 colors, but the speed at which the video updates will be half as fast. For this reason, we suggest setting your monitor to 256 colors, except on the fastest of Macintoshes.

NOTE: Because HEADCANDY looks best when viewers are standing at least seven feet from the monitor, the difference between 256 colors and thousands of colors is less apparent than it would be if you were sitting directly in front of the monitor.

OPTIMAL AUDIO TIPS

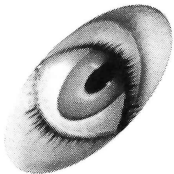
SETTING THE VOLUME. If you are listening to HEADCANDY through your computer's internal speaker, set your Sound control panel volume control to the highest volume. To change the volume of HEADCANDY's video, press 1 through 9 on your keyboard or numeric keypad. Press "0" to mute the sound. If you are connecting your Macintosh to an external preamp or stereo, set the Sound control panel volume control to three, then adjust your audio output level from your stereo.

TIP: For a personalized HEADCANDY experience, turn off the sound on your computer and play your own music from your stereo or boom box. To help ensure that your music complements HEADCANDY's visuals, we recommend that you select music with a fast tempo.

SOUND QUALITY. Sound quality is influenced by two factors: the sound hardware in your computer and the quality of your speakers. To enjoy the highest quality sound, you will want to connect your computer to external amplified speakers or to your stereo system. While many new computers come equipped with 16-bit sound capability, most Macintoshes have built-in 8-bit sound. If your computer has 8-bit sound, you can upgrade by purchasing a 16-bit sound card or the AV option if you have a PowerMac.

For best results on Macintoshes with 16-bit sound hardware, open the Control Panels folder from the Apple menu. Now open the Sound control panel. Select Sound Out from the pop-up menu. When the Sound Out dialog appears, set Rate to 44.1 khz, Size to 16 bit and Use to Stereo.

To play the audio through your stereo, you need to plug an 1/8" stereo mini plug (part no. 42-2475 at Radio Shack) into the sound output jack in the back of your computer. The other end of the cable has two RCA phono plugs (left and right channel), each of which plug into your stereo's auxiliary input jack or any other available input jack, with the exception of phono.



CONFIGURATION & TROUBLESHOOTING

PROBLEM: No sound.
SOLUTIONS:

1. Make sure that the audio connections are secure.

2. Make sure you have Sound Manager 3.0 installed.

3. Make sure the volume on the Sound control panel is set to 7 if you're using your computer's internal speaker and 3 if you're using external speakers.

4. If you have an optional sound card or an AV, make sure that the drivers and all necessary sound card software is correctly installed. Also, verify that your sound card is working properly by trying another program or a utility that came with the card.

PROBLEM: Audio or video is skipping or "stuttering."

SOLUTIONS:

1. Turn off AppleTalk by selecting Chooser from the Apple menu, then selecting Inactive in the dialog box.

2. Disable all unnecessary extensions (remember that you need QuickTime 2.0 and Sound Manager 3.0).

3. If you're in full-screen playback mode and you are experiencing interrupted sound or the video is skipping, check your the color depth in the Monitors control panel and make sure its set to 256 colors.

4. Check to see if you have installed the latest version of your CD-ROM driver that is compatible with QuickTime 2.0. (Check with your CD-ROM manufacturer.)

5. Check the inside of your CD caddy. Dust, hair, or lint inside your caddy can affect playback of the CD-ROM, as can dirt, smudges, or fingerprints on your HEADCANDY disc. Clean the caddy and the disc thoroughly with a clean cloth. Use water if necessary, but NEVER use alcohol or solvent-based cleaners.

TECHNICAL SUPPORT

The first place to look for help in solving problems is the CONFIGURATION AND TROUBLESHOOTING section earlier in this manual. If that doesn't help, you can reach ION technical support online with the following services:

CompuServe: 74111,2401

America Online: ION HELP

APPLELINK: ION.GENERIC

eWorld: ION

Internet: ION.GENERIC@APPLELINK.APPLE.COM

If you are still unable to solve any problems you might be having with HEADCANDY, you can call our technical support line at (415) 455-5939 for assistance. This number reaches ION's voice mail, where you can leave a message describing your problem, your hardware configuration, your name and phone number. A technical support person will call you back as soon as possible.

The entire staff at ION hopes you have fun with HEADCANDY. Watch for new and exciting entertainment products from ION. To receive mailings on upcoming products, be sure to return your registration card!

ACKNOWLEDGMENTS

Art direction and packaging art: Lou Beach Design: Lynn Robb Documentation: Jennifer Omholt Photo of Brian Eno: David Bowie