

## **Welcome to *Understanding McLuhan* CD-ROM.**

We hope you enjoy this Voyager title.

### **TECHNICAL REQUIREMENTS**

PC-compatible computer with a 486DX-2 or higher processor

8 MB of installed RAM (minimum)

640x480, 256-color display.

MPC2-compatible CD-ROM drive

MPC2-compatible sound card with speakers or headphones

Mouse

MS-DOS operating system version 5.0 or later

Microsoft Windows version 3.1 or later

MS-DOS CD-ROM Extensions (MSCDEX) version 2.2 or later

QuickTime for Windows (version 2.1 or greater)

### **SETTING UP**

You can install *Understanding McLuhan* software using Program Manager or File Manager. No matter which method you use, the installer will add a *Understanding McLuhan* icon to the Voyager-96 group in Program Manager.

#### **Installing the Software from File Manager**

1. Insert the CD into your CD-ROM drive according to the drive manufacturer's instructions.
2. From within the Windows File Manager, click on the drive icon for your CD-ROM drive to display the disc's files.
3. Double-click on the SETUP.EXE file to run the Setup program.
4. Follow the directions in the Setup dialog boxes to complete the installation.

#### **Installing the Software from Program Manager**

1. Choose Run from the File menu.
2. Type d:\setup.exe, where d: is your CD-ROM drive.
3. Click OK.
4. Follow directions in the Setup dialog boxes to complete the installation.

#### **Installing the Software from the Windows 95 Desktop**

1. Insert the CD into your CD-ROM drive according to the drive manufacturer's instructions.
2. Choose Run from the Start menu.
3. Type d:\setup, where d: is your CD-ROM drive.
4. Click OK.
5. Follow the directions in the Setup dialog boxes to complete the installation.

### **GETTING STARTED**

To launch *Understanding McLuhan*, insert the CD-ROM into the CD-ROM drive and double-click the *Understanding McLuhan* icon in the Voyager-96 group in the Program Manager.

### **PERFORMANCE TIPS**

Quit out of all other programs before launching *Understanding McLuhan*.

Custom Wallpaper in Windows 3.1 can cause conflicts with *Understanding McLuhan* startup. To turn off Custom Wallpaper, go into the Control Panels and select Desktop. A window will open which gives you a number of options for Desktop settings. In the Wallpaper field, make sure that (None) is selected. Restart Windows.

#### **Swap File Settings**

If you have 8 MB of RAM installed in your computer, set the swap file to "permanent" and set the

swap file size to 10,000 KB.

If you have more than 8 MB of RAM, we recommend simply turning the swap file OFF.

To change the swap file settings,

- 1) Double-click the Control Panel in the Main group of the Program Manager
- 2) Double-click the "386 Enhanced" icon
- 3) Click "Virtual Memory"
- 4) Click "Change"
- 5) Under "Type" choose "Permanent"
- 6) In "New Size" type "10000"KB
- 7) Click "OK"
- 8) Click "Yes" when asked "Are you sure you want to make changes to virtual-memory settings?"
- 9) Exit Windows and restart the machine

To turn swap file OFF,

- 1) Double-click the Control Panel icon in the Main group of the Program Manager
- 2) Double-click the "386 Enhanced" icon
- 3) Click "Virtual Memory"
- 4) Click "Change"
- 5) Under "Type" choose "None"
- 6) Click "OK"
- 7) Click "Yes" when asked "Are you sure you want to make changes to virtual-memory settings?"
- 8) Exit Windows and restart the machine

### **16 Bit Audio Synchronization**

*Understanding McLuhan* features 16-bit mono audio. Apple's QuickTime for Windows 2.1 is not fully compatible with all sound cards installed in Windows machines. Therefore, these cards may be unable to play back the 16-bit audio and maintain synchronization with the movie's video.

If you notice the audio loses synchronization with the video, there is a change you can make to the QTW.INI file that will drop the sound quality down to 8-bit stereo, but may improve the synchronization.

To make this change to the QTW.INI file:

- 1) Find the QTW.INI file in the Windows directory on your computer
- 2) Double-click on it to open it.
- 3) Add the following statements to the end of this file:

```
[Sound]
ChannelControl=8
```

- 4) Save the new file under the same name, QTW.INI, and close it.
- 5) The added statements have now been saved in the QTW.INI file.

If this change does not improve the audio playback to your satisfaction, you may want to purchase an audio card that is fully supported by QuickTime for Windows 2.1. Apple specifies the following audio cards as fully supported:

Creative Labs SoundBlaster Pro  
Creative Labs SoundBlaster Pro 16  
Creative Labs ThunderBoard  
Media Vision ProAudio Spectrum

Media Vision ProAudio Spectrum Plus  
Media Vision ProAudio Spectrum 16  
Media Vision Audio Port  
Microsoft Sound System  
Cardinal Technologies Sound Studio  
Orchid Sound Producer Pro.  
Turtle Beach MultiSound  
ATI Stereo F/X

A complete QuickTime for Windows hardware compatibility list appears below. Please refer to it for driver versions and dates.

### **Audio Performance on 8 bit Sound Cards**

Some 8 bit sound cards may have a problem in playing back 16 bit audio with QuickTime for Windows. This problem is often exhibited by skipping or slow playback of the audio on the disc.

Making changes to the QTW.INI file will sometimes improve audio performance when playing *Understanding McLuhan* on 8 bit sound cards.

Follow these steps to modify the QTW.INI file:

- 1) Locate the QTW.INI file in the Windows directory on your computer.
- 2) Double-click on the QTW.INI file to open it.
- 3) Go to the end of the contents of the file and add the following statements:

```
[Sound]
ChannelControl=8
RequestedRate=11025
ActualRate=11025
```

- 4) Save the new file under the same name, QTW.INI, and close it.
- 5) The added statements have now been saved in the QTW.INI file.

You should not modify your QTW.INI file if you do not experience audio playback problems.

### **SOFTWARE REGISTRATION**

Please register your software for technical support and so that we can keep you posted on the ever-growing Voyager catalog. To register this Voyager title, double-click on the SOFTREG.TXT file in the REGISTER directory on the CD-ROM.

You can return this information by email to [register@voyagerco.com](mailto:register@voyagerco.com) or by fax to (212) 431-5799.

### **SOFTWARE SUPPORT**

For technical support on Voyager products, call (212) 219-2522. You can also reach Voyager technical support via online services or e-mail.

Internet Address: [techsupport@voyagerco.com](mailto:techsupport@voyagerco.com)

America Online: [voyager@aol.com](mailto:voyager@aol.com)  
or go to the AOL Voyager forum: keyword is "voyager"

CompuServe: [75300,1635@compuserve.com](mailto:75300,1635@compuserve.com)  
or go to the Multimedia A Vendor forum

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QuickTime for Windows does not support all Windows video and sound cards. Voyager has included the following information from Apple which outlines hardware support, compatibility and incompatibility. If you experience problems when running *Understanding McLuhan*, please check to see if your video and sound cards are supported under QuickTime for Windows.

## QuickTime for Windows 2.0 Hardware Compatibility List July 27, 1994

This document is meant to be an aid to developers who are working with and distributing QuickTime for Windows per their license agreement. The list is by no means comprehensive but has grown substantially over the past year. The Video and Audio Hardware adapters are divided into three basic classifications: Supported, Compatible and In-Compatible.

Supported hardware/driver combinations are those that have been tested as part of the QTW development plan and are considered benchmarks to the product.

Compatible hardware/drivers are those combinations that have been tested but not as thoroughly as Supported items but appear to function adequately.

In-Compatible hardware/driver combinations are those recognized as having significant problems in appearance or behavior with QTW.

Another category that we've added to our report is Optimized. Optimized video hardware/driver combination allows QTW to write directly to the video memory speeding up video performance significantly. Whenever possible, the name of the manufacturer, product name, driver date or version when known, and depth in the case of video drivers is listed.

Supported Video Adapter	Driver	Depth	Resolution	Optimized?
Standard VG	Windows VGA	4	640x350	No
Standard EGA	Windows EGA	4	640x480	No
IBM 8514	Windows	8	1024x768	No
IBM XGA	07/27/92	4	640x480	No
IBM XGA	07/27/92	16	1024x768	No
<i>Only XGA20 supports 16-bit color. Do NOT use the drivers supplied with Windows 3.1. Instead, use the drivers supplied by IBM.</i>				
ATI VGA X	04/09/92	4	800x600	Yes
ATI VGA XL	04/10/92	8	1024x768	Yes
ATI VGA XL	04/20/92	16	800x600	Yes
ATI ULTRA	04/22/92	8	1024x768	No
ATI ULTRA	OEM	16	640x480	No
ATI Mach 32	01/05/93	8	640x480	Yes
ATI Mach 32	01/05/93	16	1024x768	Yes
Orchid IIs	03/01/92	8	800x600	Yes
Orchid IIs	03/01/92	16	800x600	Yes
Video 7 VRAM2 ERGO	03/10/92	8	800x600	Yes
Orchid Fahrenheit VA	02/19/93	8	640x480	Yes
Orchid Fahrenheit 1280	08/10/92	8	640x480	Yes
Orchid Fahrenheit 1280	08/10/92	16	800x600	Yes
Diamond Stealth	09/25/92	8	640x480	Yes
Diamond Stealth	09/25/92	16	640x480	Yes

Diamond SpeedStar 24x	04/28/92	8	1024x768	Yes
Diamond SpeedStar 24x	04/28/92	16	800x600	Yes
Diamond SpeedStar 24x	04/28/92	24	640x480	Yes

Supported Audio Adapter	Driver	Date
Creative Labs SoundBlaster Pro	SBPSND.DRV	05/15/92
<i>This driver has a known bug that effects all Windows applications that use sound where at times a portion of the sound will be repeated several times.</i>		
Creative Labs SoundBlaster Pro	SBPSND.DRV	02/05/92
<i>This driver sometimes 'sticks' on a sound.</i>		
Creative Labs SoundBlaster Pro 16	SB16SND.DRV	04/14/93
Creative Labs ThunderBoard	SNDBLST2.DRV	03/10/92
Creative Labs ThunderBoard	SNDBLST2.DRV	05/13/92
Media Vision ProAudio Spectrum	MVPROAUD.DRV	02/03/93 1.3
Media Vision ProAudio Spectrum Plus	MVPROAUD.DRV	02/03/93 1.3
<i>Make the following modifications to the QTW.INI file.</i>		
[Sound]		
RequestedRate=22095		
ActualRate=22536		
Media Vision ProAudio Spectrum 16	MVPROAUD.DRV	02/03/92
Media Vision Audio Port	MVAPORT.DRV	04/14/92
<i>Does not support sound sampled at above 11khz.</i>		
<i>Make the following modifications to the QTW.INI file.</i>		
[Sound]		
RequestedRate=11025		
ActualRate=11025		
Microsoft Sound System	SNDSYS.DRV	09/21/92 1.0
Cardinal Technologies Sound Studio	TAPIGSS1.DRV	12/28/92
Orchid Sound Producer Pro.	PRODUCER.DRV	01/13/93
Orchid Sound Producer Pro.	PRODUCER.DRV	10/01/92
Turtle Beach MultiSound	MULTISND.DRV	08/27/92 1.1
ATI Stereo F/X	SFX.DRV	05/04/92

Compatible Video Adapter	Driver	Depth	Resolution	Optimized?
Actix Graphics Engine Ultra Plus	03/25/93	16	1024x768	No
Actix Graphics Engine Ultra Plus	03/25/93	8	1024x768	No
Actix Graphics Engine Ultra Plus	03/25/93	16	800x600	No
Actix Graphics Engine Ultra Plus	03/25/93	8	800x600	No
Actix Graphics Engine Ultra Plus	03/26/93	24	640x480	No
Actix Graphics Engine Ultra Plus	03/25/93	16	640x480	No
Actix Graphics Engine Ultra Plus	03/25/93	8	640x480	No
ATI VGA XL	08/14/92 1.42	16	640x480	No
ATI VGA XL	04/20/92	8	800x600	Yes
ATI VGA XL	04/10/92	16	640x480	Yes
ATI VGA XL	04/20/92	8	640x480	Yes
ATI VGA XL	06/25/92	8	1024x768	Yes
ATI VGA XL	06/25/92	8	800x600	Yes

ATI VGA XL	07/28/92	16	640x480	Yes
ATI VGA XL	06/25/92	8	640x480	Yes
ATI VGAWONDER XL24	06/25/92	8	1024x768	Yes
ATI VGAWONDER XL24	07/28/92	16	800x600	Yes
ATI VGAWONDER XL24	06/25/92	8	800x600	Yes
ATI VGAWONDER XL24	07/28/92	16	640x480	Yes
ATI VGAWONDER XL24	06/25/92	8	640x480	Yes
ATI Graphics Ultra	08/14/92	4	800x600	No
ATI Graphics Ultra	08/14/92	4	640x480	No
ATI Graphics Ultra	06/25/92	8	640x480	No
ATI Graphics Ultra Pro	03/10/92	8	8514/a	No
ATI Graphics Ultra Pro	03/13/93	8	1280x1024	Yes
ATI Graphics Ultra Pro	03/13/93	16	1024x768	Yes
ATI Graphics Ultra Pro	03/13/93	8	1024x768	Yes
ATI Graphics Ultra Pro	03/13/93	24	800x600	No
ATI Graphics Ultra Pro	03/13/93	16	800x600	No
ATI Graphics Ultra Pro	03/13/93	8	800x600	Yes
ATI Graphics Ultra Pro	03/13/93	16	640x480	No
ATI Graphics Ultra Pro	03/19/93	24	640x480	No
ATI Graphics Ultra Pro	03/19/93	16	640x480	No
ATI Graphics Ultra Pro	03/19/93	8	640x480	Yes
ATI Graphics/Pro	11/27/92	8	1024x768	No
ATI Graphics/Pro	11/27/92	16	640x480	No
Dell 466/M S3	09/04/92 (1.2)		41280x1024	Yes
Dell 466/M S3	09/04/92 (1.2)		81024x768	Yes
Dell 466/M S3	09/04/92 (1.2)		8800x600	Yes
Dell 466/M S3	09/04/92 (1.2)		4800x600	Yes
Dell 466/M S3	09/04/92 (1.2)		15640x480	Yes
Dell 466/M S3	09/04/92 (1.2)		8640x480	Yes
Diamond Stealth Pro	12/07/92	8	1280x968	No
Diamond Stealth Pro	12/07/92	8	1280x1024	No
Diamond Stealth Pro	12/16/92	16	1024x768	No
Diamond Stealth Pro	01/06/93	8	1024x768	No
Diamond Stealth Pro	12/18/92	16	800x600	No
Diamond Stealth Pro	01/06/93	8	800x600	No
Diamond Stealth Pro	02/23/93	24	640x480	No
Diamond Stealth Pro	01/06/93	16	640x480	No
Diamond Stealth Pro	01/06/93	8	640x480	No
Diamond SpeedStar 24	04/14/92	8	1024x768	Yes
Diamond SpeedStar 24	04/14/92	15	800x600	No
Diamond SpeedStar 24	04/14/92	8	800x600	Yes
Diamond SpeedStar 24	04/14/92	15	640x480	No
Diamond SpeedStar 24	04/14/92	8	640x480	Yes
Diamond Viper VLB	04/27/93	8	1152x900	Yes
Diamond Viper VLB	04/27/93	16	1024x768	Yes
Diamond Viper VLB	04/27/93	8	1024x768	Yes
Diamond Viper VLB	04/27/93	24	800x600	No
Diamond Viper VLB	04/27/93	16	800x600	Yes
Diamond Viper VLB	04/27/93	8	800x600	Yes
Diamond Viper VLB	04/27/93	24	640x480	No
Diamond Viper VLB	04/27/93	16	640x480	Yes
Diamond Viper VLB	04/27/93	8	640x480	Yes

*Support for the P9000 was added in QTW 1.1.1.*

Genoa Windows VGA 8500	02/16/93	8	1024x768	Yes
Genoa Windows VGA 8500	10/23/92 (turbo)	16	800x600	Yes

Genoa Windows VGA 8500	08/24/92	16	800x600	Yes
Genoa Windows VGA 8500	10/28/92	8	800x600	Yes
Genoa Windows VGA 8500	12/01/92 (turbo)	24	640x480	No
Genoa Windows VGA 8500	10/14/92	24	640x480	No
Genoa Windows VGA 8500	11/11/92 (turbo)	16	640x480	Yes
Genoa Windows VGA 8500	08/24/92	16	640x480	Yes
Genoa Windows VGA 8500	10/28/92	8	640x480	Yes

*Support for the Cirrus Logic CL-GD5426 GUI was added in QTW 1.1.1*

IBM XGA2	07/27/92	8	640x480	No
IBM XGA2	07/27/92	16	640x480	No
IBM XGA2	07/27/92	8	800x600	No
IBM XGA2	07/27/92	16	800x600	No

*QTW supports IBM XGA2 starting with version 1.1.*

Orchid Fahrenheit VA	02/19/93 10:00	16	1024x768	Yes
Orchid Fahrenheit VA	02/19/93 10:00		24640x480	Yes
Orchird VLB (Local Bus)	02/19/93	16	800x600	Yes
Orchird VLB (Local Bus)	02/19/93	15	800x600	Yes
Orchird VLB (Local Bus)	02/19/93	8	800x600	Yes
Orchird VLB (Local Bus)	02/19/93	24	640x480	No

*Movies shifted to the left, a few pixels in 24 bit mode . Rebooting fixes the problem*

Orchird VLB (Local Bus)	02/19/93	16	640x480	Yes
Orchird VLB (Local Bus)	02/19/93	15	640x480	Yes
Orchird VLB (Local Bus)	02/19/93	8	640x480	Yes
Orchid Fahrenheit 1280	08/10/92 10:00	15	800x600	No
Orchid Fahrenheit 1280	08/10/92 10:00		8800x600	Yes
Orchid Fahrenheit 1280	08/10/92 10:00	16	640x480	No
Orchid Fahrenheit 1280	08/10/92 10:00	15	640x480	No
Orchid Pro designer IIs/D 1.1	04/7/92	15	800x600	No
Orchid Pro designer IIs/D 1.1	04/7/92		8800x600	Yes
Orchid Pro designer IIs/D 1.1	04/7/92	8	640x480	Yes
Orchid Pro II	03/01/92	8	1024x768	Yes
Orchid Pro II	03/01/92	15	800x600	No
Orchid Pro II	03/01/92	8	800x600	Yes
Orchid Pro II	03/01/92	15	640x480	No
Orchid Pro II	03/01/92	8	1024x768	Yes
Sigma Legend GX	04/01/92 (1.13)	8	1024/768	No
Sigma Legend GX	04/01/92 (1.13)	8	800x600	No
Sigma Legend GX	03/31/92 (1.13)	8	640x480	No
Sigma Legend GX	04/01/92 (1.13)	8	640x480	No
Sigma Legend 24X	11/13/92	8	1024x768	No
Sigma Legend 24X	11/13/92	16	800x600	No
Sigma Legend 24X	11/13/92	8	800x600	No
Sigma Legend 24X	11/14/92	24	640x480	No
Sigma Legend 24X	11/13/92	16	640x480	No
Sigma Legend 24X	11/13/92	8	640x480	No
Matrox 1024	08/21/92 2.07	24	1024x768	No
MiroCrystal 8S	04/13/93	8	1024x768	No
MiroCrystal 8S	04/13/93	16	800x600	No
MiroCrystal 8S	04/13/93	8	800x600	Yes
MiroCrystal 8S	04/15/93	16	640x480	No
MiroCrystal 8S	04/13/93	8	640x480	Yes

<b>Compatible Audio Adapter</b>	<b>Driver</b>	<b>Date</b>
Creative Labs ThunderBoard	SNDBLST2.DRV	03/10/92
Creative Labs ThunderBoard	SNDBLST2.DRV	05/13/92
Creative Labs Sound Blaster 2.0 <i>Sound 'Sticks' with this driver.</i>		02/16/93
DigispeechPortAble Sound Plus	PRTSND.DRV	04/14/93
IBM M/Audio <i>Adjusting the volume from the Movie Controller may cause the volume to be muted. To restore the volume, stop and restart the movie. Sound may skip when resizing window Sound is played at 44khz by doubling the samples.</i>	ACPA.DRV	10/29/92 11:38
IBM M/Audio <i>Limited volume control from keyboard.</i>	ACPA.DRV	8/28/92
MediaVision Thunder and Lightning <i>Make the following modifications to the QTW.INI file. [Sound] RequestedRate=22222</i>	TLWAVE.DRV	08/25/92

<b>Incompatible Video Adapter</b>	<b>Driver</b>	<b>Depth</b>	<b>Resolution</b>	<b>Optimized?</b>
ATI VGAWONDER XL24 <i>In the 24 bit mode (16 Million Colors) Reds and Blues seem to be reversed.</i>	07/29/92	24	640x480	Yes
ATG CatsEye/X <i>Field reports of systems hanging when movies are played with this board.</i>				
Compaq Q-Vision <i>We have field reports that QTW does not work with this card.</i>				
Diamond SpeedStar 24 * <i>Movies render as a thin line at the top of the screen in 24 bit mode. All other functions are normal.</i>	04/14/92	24	640x480	Yes
MediaVision <i>We have a field report that QTW does not work with the original MediaVision video display adapter. The report indicates that the movie sound is played but the movie can not be seen. Problem persists when Optimize is set to driver.</i>				
OmiCorp Texan <i>We have field reports of sound but no movie (video) with this card.</i>				
PackardBell <i>We have several field reports dealing with a PackardBell. Reports of a "shutters" type effect on local bus systems have been noted. The shutters effect is where a few lines of movie can be seen, then a few lines of background, then a few lines of movie, and so on. The reports also state that the image is also shifted down and to the right about 10 pels.</i>				
<i>Further reports tell of a lack of Movie image when running on Local Bus Packard Bell Machines.</i>				



Sigma WindStorm	08/21/92	8	1024x768	No
Sigma WindStorm	08/21/92	16	800x600	No
Sigma WindStorm	08/21/92	8	800x600	No
Sigma WindStorm	08/21/92	24	640x480	No
Sigma WindStorm	08/21/92	16	640x480	No
Sigma WindStorm	08/21/92	8	640x480	No

*QTW has very poor performance with is adapter.*

Video 7 SPEA 7

OEM

*We have field reports that the Optimize = Driver must be added to the QTW.INI before the movie will appear in the movie window frame. Audio and all other actions seems to be OK without the change.*

**Incompatible Audio Adapter**

**Driver**

**Date**

Media Vision Thunder and Lighting \*

*QTW has very poor through-put with this card.*

Media Vision CDPC \*

*QTW does not work well with is system with movies over 10 seconds in length.*

Media Vision CDPC II

*QTW does not work well with this system with movies over 10 seconds in length.*

Sigma Design WinStorm

8/21/92

*Very poor QTW performance when running audio and video together.*

Tandy 'Gold Card'

*Only one unconfirmed report on this line of cards. A developer states that he has a Tandy "Gold Card" and QTW crashes whenever he trys to play a movie. Removing the card seems to fix the problem.*