VIRTUAL VIXENS
Final Release - April 21, 1994

Prior to installing this disc, you should confirm that your system meets the following requirements:

1. Minimum Hardware Requirements:

- ☑ A personal computer with an 486 or faster CPU.
- ☑ A CPU speed of 25 MHz or higher.
- ☑ 8 megabytes of conventional and extended memory. (may work on some systems with only 4MB of RAM)
- ☑ A CD-ROM drive supported by Microsoft Windows (access time less than 350ms, and sustained transfer rate of at least 150K per second)
- ☑ A hard disk with at least 4 megabytes free for the basic QuickTime for Windows software.
- ☑ Mouse (or other pointing device) supported by Microsoft Windows.
- ☑ A ".WAV" compatible sound card supported by Microsoft Windows.
- ☑ Additional free disk space if you want to keep movies and pictures on your hard disk.

Troubleshooting

Sympton:
        "Can't Load Customer Control DLL":
        'D:\QTMOVIE.VBX' Message

Possible causes:
        Path name error. You should have windows in your path statment as a minimum
(example "DRIVE:\DOS;DRIVE:\WINDOWS;"). Refer to your DOS Manual on how to modify the
AUTOEXEC.BAT file.

Symptom:
        Program locks up during game play.

Possible causes:
        Screen saver, disable screen saver and restart.
                Alternative Desktop (Norton Desktop, etc.), disable and use Program
                Manager.
                Background Process, disable all other programs.

Symptom:
        "Parity Error" Message

Possible causes:
        Memory problem. Check with your computer owner's manual for proper machine
        speed/memory wait-state setting.

Symptom:
        "General Protection Fault Error..." message box

Possible causes:
                Video or Audio driver conflict. Check with the manufacturer for the latest

driver.

Symptom:
"Not a Valid Movie" message box

Possible causes:
Conflict with other CD-ROM titles that use QuickTime.   If you have "The Journeyman Project", you will need to run the MoviePlayer before starting Scissors & Stones.

Symptom:
Scrambled Video Display

Possible causes:
Confilict with you Video Display Card. Edit the file QTW.INI in your WINDOWS direstory on your hard drive, change the line:

[Video]
Optimize=Hardware

to

[Video]
Optimize=driver

If problem persists, try other options documented at the end of this README file.

We also recommend some type of CD-ROM caching program such as SMARTDRIVE from DOS 6.2 for better performance during gameplay. (SMARTDRIVE form DOS 6 and earlier does not support CD-ROM caching).

PC AUDIO CARD COMPATIBILITY

The following chart summarizes the audio hardware products that were tested with QuickTime for Windows 1.1.1 Most compatibility issues are based on driver versions. With some boards, more than 1 driver was tested. In most cases, the latest available driver was tested. THE DRIVER TESTED MAY NOT BE THE SAME VERSION AS THAT WHICH CAME WITH THE AUDIO CARD. Contact the vendor for the latest driver version. Known bugs are included.

Supported Audio Cards

Adapter	Driver	date
Creative Labs SoundBlaster Pro	SBPSND.DRV	05/15/92

This driver has a know bug that effects all Windows applications that use sound where at times a portion of the sound will be repeated several times.

| Creative Labs SoundBlaster Pro | SBPSND.DRV | 02/05/92 |

This driver some times 'sticks' on a sound.

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
Make the following modifications to the QTW.INI file.
[Sound]
RequestedRate=22095
ActualRate=22536

Media Vision ProAudio Spectrum 16   MVPROAUD.DRV 02/03/92

Media Vision Audio Port   MVAPORT.DRV   04/14/92
Does not support sound sampled at above 11khz.
Make the following modifications to the QTW.INI file.
[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 Audio Cards

Adapter		Driver	date

Creative Labs   ThunderBoard   SNDBLST2.DRV   03/10/92
Creative Labs   ThunderBoard   SNDBLST2.DRV   05/13/92

Creative Labs   Sound Blaster 2.0   02/16/93
Sound 'Sticks' with this driver.

Digispeech   PortAble Sound Plus   PRTSND.DRV   04/14/93

IBM   M/Audio   ACPA.DRV   10/29/92 11:38
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.

IBM   M/Audio   ACPA.DRV   8/28/92
Limited volume control from keyboard.

MediaVision   Thunder and Lightning   TLWAVE.DRV   08/25/92
Make the following modifications to the QTW.INI file.
[Sound]
RequestedRate=22222

In-Compatible Audio Cards

Media Vision Thunder and Lighting *
QTW has very poor through-put with this card.

Media Vision CDPC *
QTW does not work well with this 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 crashed whenever he trys to play a movie. Removing the card seems to fix the problem.

PC VIDEO CARD COMPATIBILITY

The following chart summarizes the video display cards that were tested with QuickTime for Windows 1.1.1. Most compatibility issues are based on driver versions. With some boards, more than 1 driver was tested. In most cases the latest available driver was tested. THE DRIVER TESTED OR SUPPORTED MAY NOT BE THE SAME VERSION AS THAT WHICH CAME WITH THE VIDEO CARD. Contact the vendor for the latest driver version. Known bugs are included. For Pixel Depth : 8 bits = 256 colors, 15 bits = 32,768, 16 bits = 65, 536 and 24 bits = 16 million colors.

If your video card is not listed below and you are having SEVERE compatibility problems, you may consider modifying the QTW.INI file. Change the [Video] setting to Optimize = Driver. This may resolve severe compatibility problems with a specific video card but will also reduce the performance of Movie playback. See **MODIFYING QTW.INI FOR COMPATIBILITY**.

NEW FEATURES IN QuickTime 1.1.1
. Support for P9000 Graphics accelerator.
. Support for the Cirus Logic CL-GD54xx GUI accelerator.
. Support for the WD 90C33 Graphcs accelerator.

Supported Video Cards

Adapter	Driver	Depth	Resolution	Optimized?
Standard VGA	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

Only XGA20 supports 16-bit color. Do NOT use the drivers supplied with Windows 3.1. Instead, use the drivers supplied by IBM

Adapter	Driver	Depth	Resolution	Optimized?
ATI VGA XL	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

Compatible Video Cards

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)	4	1280x1024	Yes
Dell 466/M S3	09/04/92(1.2)	8	1024x768	Yes

Device	Chipset	Date	Bits	Resolution	Support
Dell 466/M	S3	09/04/92(1.2)	8	800x600	Yes
Dell 466/M	S3	09/04/92(1.2)	4	800x600	Yes
Dell 466/M	S3	09/04/92(1.2)	15	640x480	Yes
Dell 466/M	S3	09/04/92(1.2)	8	640x480	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.

Device	Chipset	Date	Bits	Resolution	Support
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 thge Cirus Logic CL-GD5426 GUI was added in QTW 1.1.1.

Device	Chipset	Date	Bits	Resolution	Support
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.

Device	Chipset	Date	Bits	Resolution	Support
Orchid Fahrenheit VA		02/19/93 10:00	16	1024x768	Yes
Orchid Fahrenheit VA		02/19/93 10:00	24	640x480	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.

Device	Chipset	Date	Bits	Resolution	Support
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	8	800x600	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	8	800x600	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	1024 x 768	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

In-Compatible Video Cards

ATI VGAWONDER XL24	07/29/92	24	640x480	Yes

In 24 bit mode (16 Million Colors) Reds and Blues seem to be reversed.

ATG CatsEye/X
Field reports of systems hanging when movies are played with this board.

Compaq Q-Vision
We have field reports that QTW does not work with this card.

Diamond SpeedStar 24 *	04/14/92	24	640x480	Yes

Movies render as a thin line at the top of the screen in 24 bit mode. All other functions are normal.

MediaVision
We have a field report that QTW does not work with the orginal MediaVision video display adapter. The report indicates that the movies sound is played but the movie can not be seen. Problem persists when Optimize is set to driver

OmiCorp Texan
We have field reports of sound but no movie (video) with this card.

PackardBell
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 pixels.

Further reports tell of a lack of Movie image when running on Local Bus Packard Bell Machines.

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 with out the change.

Optimizing Quicktime for Windows

MOVTEST.EXE
This program is used to evaluate your system's QuickTime performance. To use it, you must run it from this CD. (type [CD-ROM_drive]:\MOVTEST.EXE to run) When activated, MOVTEST.EXE first plays 500 frames of a QuickTime movie clip without sound and then plays another 5 seconds this time with the audio track enabled so you can hear if your sound card is installed properly. MOVTEST.EXE measures your system to for both CD-ROM transfer speed and display performance. A rating of 80% or better is required to play QuickTime properly.

MODIFYING QTW.INI FOR COMPATIBILITY
NOTE: Modification of the QTW.INI file should be done at your own risk. Typically one does not need to make any modifications to this file. For some compatibility issues, modifying the file will make video or audio cards work properly, but with reduced performance. Be sure to make a backup of the QTW.INI file before modifying it.

The most common modification to the QTW.INI is to change the [Video] setting to Optimize = Driver. This may resolve severe compatibility problems with a specific video card but will also reduce the performance of Movie playback.

Once, again modify at your own risk.

[Video] (in order of priority)
Optimize =   Hardware (default)
                 Driver
                 BMP
                 RAW
                 DIB

[Video Optimize]
This is not used

[Override] // group
DREF = no or yes {NO forces QTW to use the file as self referencing, useful for QT 1.0 files}

[Data Handler]
CDROM Xfer Rate* = [integer] ranges from 100 to 600, where number is in K, default is 328.
CDROM Seek TIme* [integer from 0 to X] where x is 100 to 350 in ms for average seek, default is 200.
CDROM Block Size = [integer, expressed in K] default is 8, range is 1 to 64.

Max Open Files =[integer] default is 64.
Max Consumers = [integer] usually same as Max Open Files. You can have multiple consumers

per file.
Max Cache Size = [integer] expressed in K, default is 128, ranges from 64 to 512.

Disk Xfer Rate = [integer] same as CDROM Xfer Rate, default is 300.
Disk Seek TIme [integer] expressed in millisecon s per average seek, defgault is 35.
Disk Block Size = [integer, expressed in K] default is 16, range is 1 to 64.

Network Xfer Rate = [integer] same as CDROM Xfer Rate, defalut is 250
Network Seek TIme [integer] expressed in millisecon s per average seek, default is 40.
Network Block Size = [integer, expressed in K] default is 16, range is 1 to 64.

Floppy Xfer Rate = [integer] same as CDROM Xfer Rate, default is 18.
Floppy Seek TIme [integer] expressed in millisecon s per average seek, default is 100.
Floppy Block Size = [integer, expressed in K] default is 2, range is 1 to 64.

[Sound]
Requested Rate = [integer] ranging from 5000 to 44000 (has to be exact rate for MPC cards)
Actual Rate = same possible rates as requested

* Set dynamically by QuickTime for Windows, based on what it senses as the CD-ROM speed.

Hardware Optimization:

An accelerated graphics card will significantly boost video performance. Quicktime movies are optimized for 16-bit color so a High Color, 32K, 65K, or 16 million color graphics card is highly recommended.

Make sure your CD-ROM drive is configured properly. If your CD-ROM controller/host adapter is capable of DMA transfer, always use the DMA option. Sample "`CONFIG.SYS`" for Mitsumi CD-ROM drive:

```
device = mtmcde.sys /d:mscd001 /m:32 /i:10 /t:5
```

Software configuration:

"`SETUP.EXE`" should have changed your "`AUTOEXEC.BAT`" to show a path declaration to include the new QuickTime driver software. (Sample)

```
SET PATH=C:\DOS;C:\WINDOWS;[path]:\qtw\bin
```

To optimize playback on your machine, read the `QTW.INI` file inside your `\WINDOWS` directory for more instructions.

For optimal performance, use Microsoft CD-ROM driver 2.0 or higher. Edit your "`AUTOEXEC.BAT`" file to allocate at least 30K drive buffer. Example :

```
MSCDEX /d:mscd001 /m:30
```

If you use Windows For Workgroup, the installation process will append a "`/s`" switch to `MSCDEX.EXE`. This will cause problem with the viewer program. Please remove the switch with a text editor and restart the computer.
For more detailed instructions on CD-ROM driver software, please consult your CD-ROM owner's manuals.

When calling for tech support please fax us a printed listing of your AUTOEXEC.BAT and CONFIG.SYS if possible.

If you have more questions regarding this product, you may contact us at:

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