



# User Guide

Version 1.0

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QuVIS Technologies, Inc.  
900 SW 39<sup>th</sup> Street  
Suite N  
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785-272-3656

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# FINDING INFORMATION

## About this manual

This user manual describes the DCP playback process using the Quvis DCP Player.

## How this manual is organized

This manual is organized around the tasks required to play a DCI JPEG2000 Digital Cinema Package (DCP). The following describes the chapters in this manual:

[Chapter 1 – Introduction to Quvis DCP Player](#) – Provides a general introduction to the Quvis DCP Player

[Chapter 2 – Quvis DCP Player](#) – This chapter discusses the Quvis DCP player workflow and features.

## Getting more information

Wraprotor product information is also available on the QuVIS web site - <http://www.quvis.com>.

The current user manuals and product documentation are available to download on the QuVIS Web site – <http://www.quvis.com/support/>.

## QuVIS Product Support

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### Web Technical Support

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**World Wide Web:** <http://www.quvis.com/support/>

**Wraprotor Software Support Email Address:** [support@quvis.com](mailto:support@quvis.com)

### Phone Support

Telephone support is available. Support technicians are available during normal business hours (Monday – Friday, 9am – 5pm CST).

United States (785) 272-3656

# CHAPTER 1 – INTRODUCTION TO QUVIS DCP PLAYER

Topics in this chapter include:

- [DCP Player Introduction](#)
- [System Requirements](#)

# DCP Player Introduction

## Thank you for your purchase!

QuVIS DCPPlayer™ is an Apple Mac OSX application designed to play 2K 2D Digital Cinema Packages (DCPs) on display and audio peripherals supported by Mac computers.

## Who is QuVIS?

QuVIS Technologies Inc., a leader in the field of hi fidelity high-resolution motion imaging technology, earned its reputation as a pioneer in the Digital Cinema industry. QuVIS has deployed commercialized Digital Cinema hardware and software solutions since the 90's when QuVIS servers were selected for the very first Digital Cinema trials. QuVIS has consistently set the bar for this industry with many technical innovations and "firsts". QuVIS was the first server company to develop a commercial wavelet compression technology, the first to demonstrate 2K extraction from 4K, the first to develop a single 3D playback server, the first to develop 3D real-time mastering, the first to develop true real-time DCI JP2K record, the first to develop a 4K playback server, and the first to offer 16 channels of audio. Wraptor continues that pioneering spirit by providing a software implementation of the mastering technology in our innovative high-end mastering server, the QuVIS Acuity™.

## What is a DCP?

To start simply, a DCP (Digital Cinema Package) is a collection of standardized digital files that represent a Digital Cinema composition encoded, encrypted (optional), and packaged for distribution. The current form of a DCP used by the Digital Cinema industry, the same form the Wraptor plug-in outputs, is derived from several sources including early Interop sources, of course the Digital Cinema System Specification published by DCI, and a number of SMPTE documents and standards.

If you are new to Digital Cinema and would like a more comprehensive introduction to Digital Cinema and associated standards and practices, we would suggest that search out reference material including those found on the website identified in the [Digital Cinema Online Resources](#) (below) section.

## Why do you need a DCP?

A DCP is very much the new "coin of the realm" for Digital Cinema. If you want your content exhibited in a Digital Cinema environment you must either distribute your content as a DCP or have someone else convert your content into a DCP and distribute it for you. For many content producers, paying someone else to create a DCP from your Final Cut Studio project is not desirable and certainly not budget friendly. Wraptor gives you the ability to create and distribute your own industry-compliant Digital Cinema content in the form required by the industry.

Other instances in which you may need a DCP may include:

- You need to submit a project to a film festival. Most of the larger international film festivals require or strongly encourage submission to delivered in the Digital Cinema format.
- You need to submit a project for an industry award event. This requirement is becoming increasingly popular.
- Digital Cinema advertising.
- Digital Dailies

## Digital Cinema Online Resources

[www.dcmovies.com](http://www.dcmovies.com) - Digital Cinema Initiatives (DCI) website  
[www.smppte.org](http://www.smppte.org) - The source for SMPTE Digital Cinema standards documents  
[www.isdcf.com](http://www.isdcf.com) - Inter-Society Digital Cinema Forum (ISDCF) Discussion Group  
[www.digitalcinema-europe.com](http://www.digitalcinema-europe.com) - European Digital Cinema Forum (ECDF)



# System Requirements

DCP Player software works on Mac OS X operating systems ONLY.

- **Mac:**  
**OS:** 10.7.x and above  
**Processor:** Xeon or i7 CPU's are recommended  
**RAM:** 2GB or above

## CHAPTER 2 – QUVIS DCP PLAYER

Information contained in this chapter include:

- [Installation](#) (p. 11)
- [Activation](#) (P. 12)
- [Play a Digital Cinema Package](#) (p. 13)

# Installation

The simple steps to install a DCP Player are as follows:

1. Launch installer DMG file “QuvisDCP.dmg” and the installation page will be shown in figure 1.



Figure 1

2. Simply click “Quvis DCP Player” on the left and drag it to “Drag Here” on the right.
3. It will copy it onto Applications folder and will appear as “Quvis DCP Player” shown in figure 2.

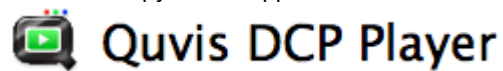
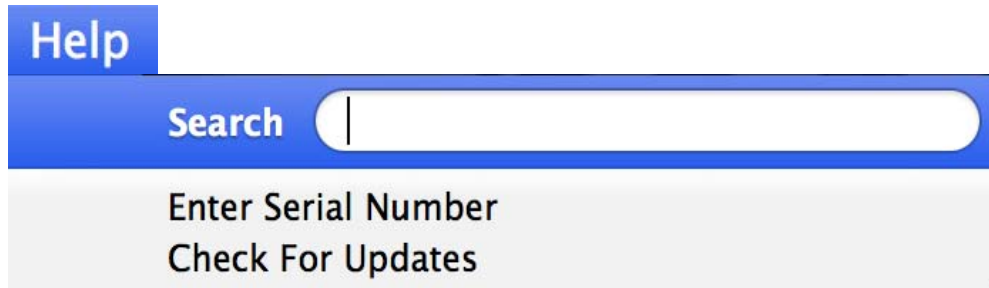


Figure 2

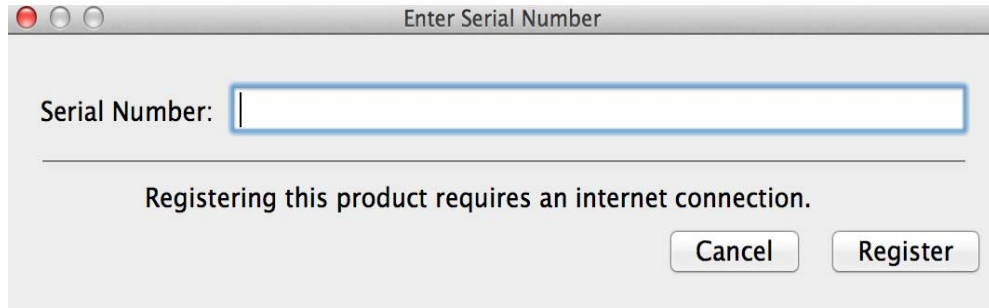
# Activation

The simple steps to activate a DCP Player are as follows:

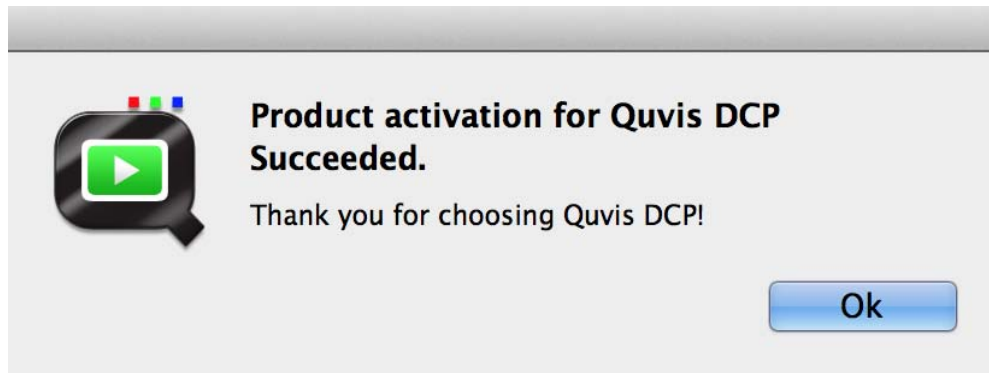
1. Go to Help and select “Enter Serial Number”



2. “Enter Serial Number” window will open and enter a serial number that was received when purchasing a copy of DCP Player and click “Register” to activate.



3. Once activation is successful, it will show a message for successful activation.



## Play a Digital Cinema Package

QuVIS DCPPlayer is an Apple Mac application running on OSX 10.7 or later. It supports 2K 2D Digital Cinema Package (DCPs) on display and audio peripherals supported by Mac computers. Digital Cinema Package frame rates of 24, 25, and 30 frames per second are supported. DCP decode is a processing intensive application, so late model Mac computers using Xeon or i7 CPU's are recommended.

The simple steps to play a DCP are as follows:

1. In the Applications, click on "Quvis DCP Player" to launch.



2. There are two (2) different ways to open a DCP in Quvis DCP Player.

- a. Click “Play” button to open a finder window and select a DCP folder shown in figure 1.

**NOTE:** This method only works when a player is fresh open. If a DCP was player once then the play button will repeat the same DCP instead of opening a finder window. Please use b. method to open another DCP.

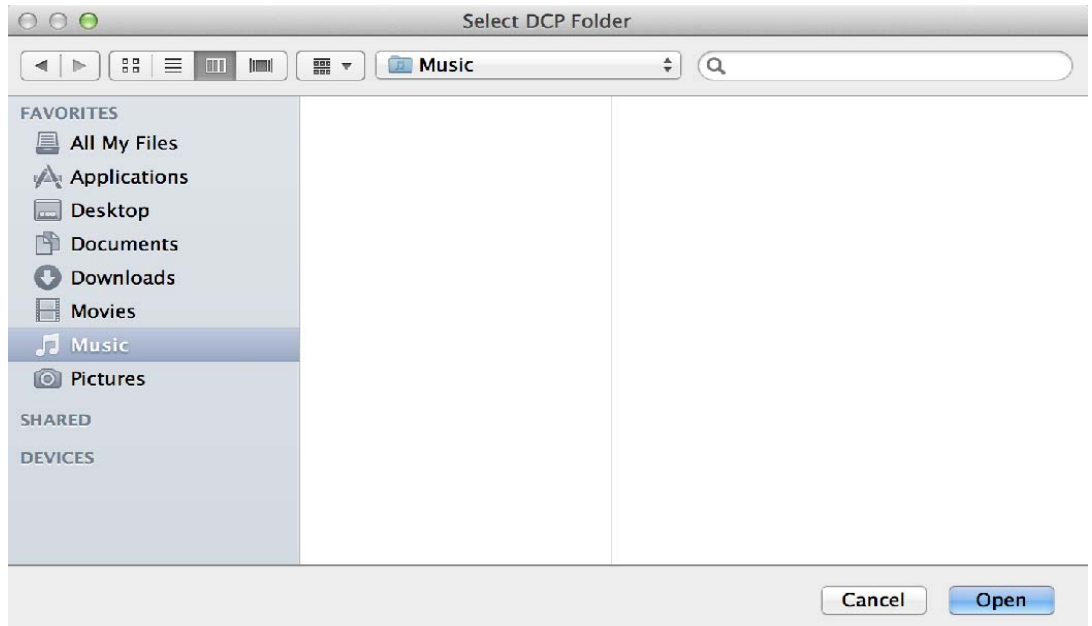
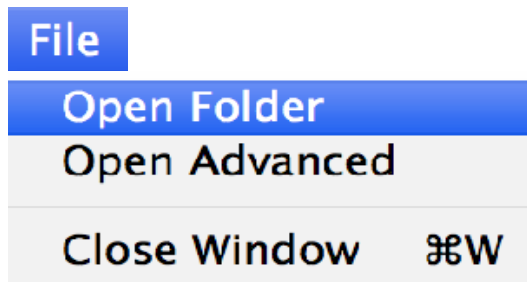
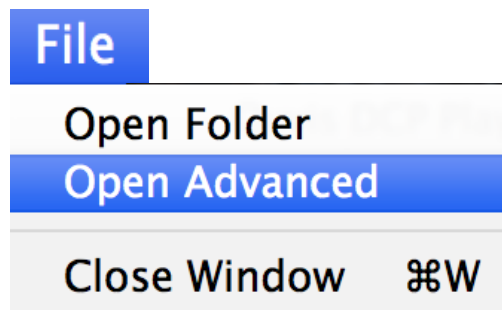


Figure 1

- b. Or go to **File > Open Folder** to open the same window as figure 1.



3. To open a specific video & audio file, go to **File > Open Advanced** and it will open an Advanced window shown in figure 2.



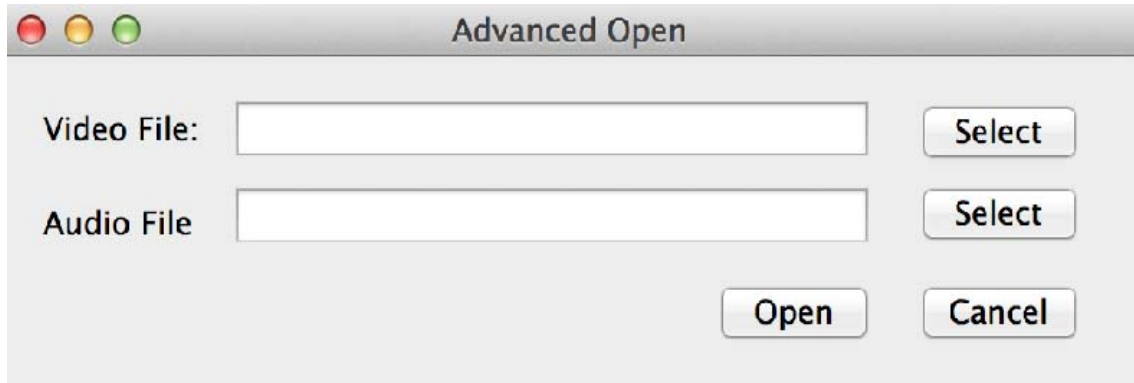


Figure 2

4. Once a DCP is in play mode, you will see the play screen as shown in figure 3. (This is just a one example of DCP)

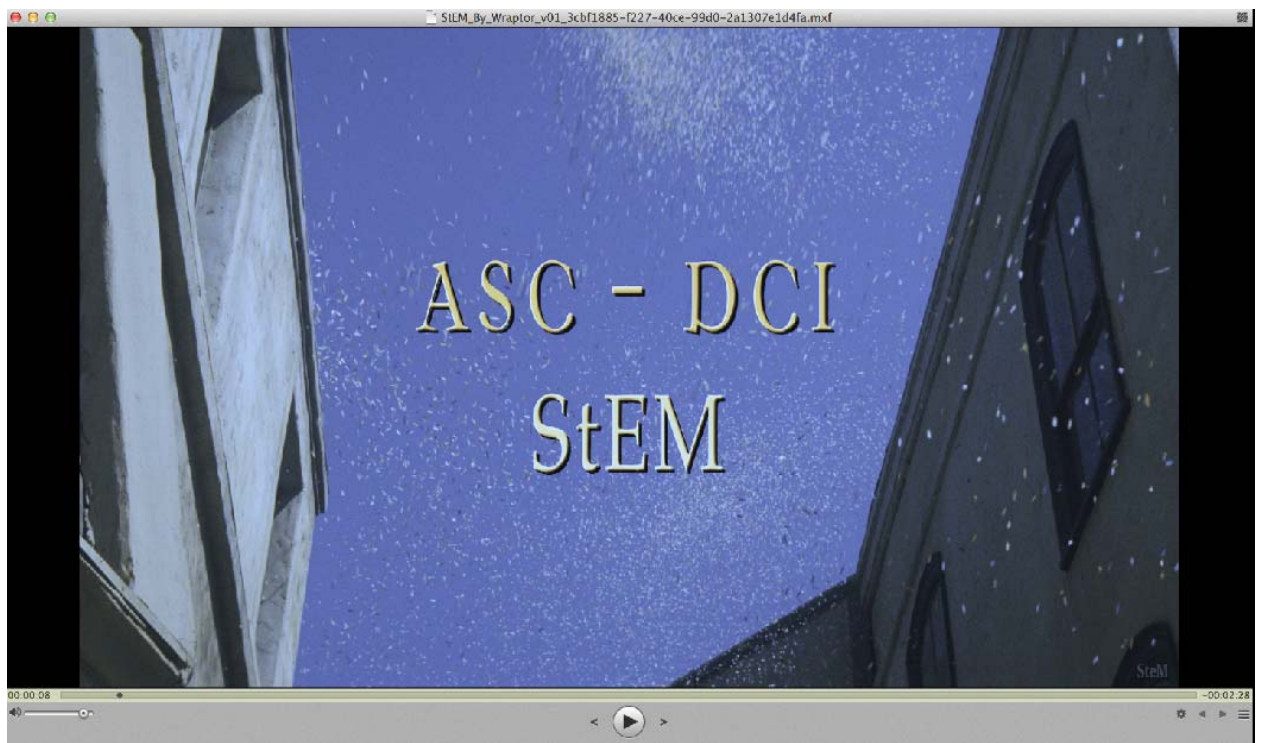


Figure 3

5. Once the DCP is open, a number of play features are available as shown in figure 4, figure 5, and figure 6.

Controls	
Play	space
Backward 10 sec.	←
Forward 10 sec.	→
Beginning	↖
End	↘
Range Repeat Beginning	⌘[
Range Repeat End	⌘]
Range Repeat Clear	⌘\
Previous Movie	⌘⌘←
Next Movie	⌘⌘→
✓ Repeat Off	⌘⌘R
Repeat All	⌘R
Repeat One	⌘⌘R
Volume Up	↑
Volume Down	↓
Mute	⌘⌘↓

Figure 4

- **Play:** To control play & pause and space bar can be used as well.
- **Backward 10 sec.:** To move a current playback 10 seconds backward.
- **Forward 10 sec.:** To move a current playback 10 seconds forward.
- **Beginning:** To move a current playback to the beginning.
- **End:** To move a current playback to the end.
- **Range Repeat Beginning:** To set the range of repeat from the beginning of where it is set.
- **Range Repeat End:** To set the range of repeat from the end of where it is set.
- **Previous Movie:** To open the previous movie on the playlist.
- **Next Movie:** To open the next movie on the playlist.
- **Repeat Off:** To set the repeat of playback off and by default, it is set to off.
- **Repeat All:** To set the repeat of playback on all playlist.
- **Repeat One:** To set the repeat of current playback on the playlist.
- **Volume Up:** To set the volume up by 0.1% up to 4.0%.
- **Volume Down:** To set the volume down by 0.1% down to 0%.
- **Mute:** To set the volume mute.



## Movie

Half Size	⌘0
Normal Size	⌘1
Double Size	⌘2
Fit To Screen	⌘3
Fullscreen	⌘F
Desktop background	⌘D
Aspect Ratio	▶
Fullscreen Filling	▶
✓ Sound Track	⏮ ⌘1
Save Current Image (Excluding Letter Box)	⏮ ⌘I

Figure 5

- **Half Size:** To set a screen sizes half.
- **Normal Size:** To set a screen sizes normal. By default, it is set to normal.
- **Double Size:** To set a screen sizes double of its normal size.
- **Fit to Screen:** To set a screen fit to the screen size.
- **Full Screen:** To set a screen sizes fullscreen.
- **Desktop background:** To set the current frame of DCP as a desktop background.
- **Aspect Ratio:** To control the aspect ratio.

✓ Default(DAR)	⌘0
Source (SAR)	⌘1
4 : 3 (TV)	⌘2
16 : 9 (HDTV)	⌘3
1.85 : 1 (Screen)	⌘4
2.35 : 1 (Screen)	⌘5

1. Default: To remain the original ratio.
2. 4:3 (TV): To set the ratio as 4:3.
3. 16:9 (HDTV): To set the ratio as 16:9.
4. 1.85:1 (Screen): To set the ratio as 1.85:1.
5. 2.35:1 (Screen): To set the ratio as 2.35:1.

- **Fullscreen Filling:** To control the fullscreen filling when playback is in full screen mode.


✓ Default	E
Expand	⇧E
Crop	
Rotation	⌘⌘F
<hr/>	
✓ Under Scan	⌘⌘U

1. Default: To remain the original full screen.
2. Expand: To expand the full screen.
3. Crop: To crop the full screen.
4. Rotation: To rotate the full screen.


- **Sound Track:** To select a sound track.
- **Save Current Image:** To save a current image as a png file.

<b>Window</b>	
Always on top	⌘T
Minimize	⌘M
Zoom	
<hr/>	
Playlist	⌘⌘L
Control Panel	⌘⌘C
<hr/>	
Bring All to Front	

Figure 7

- **Always on top:** To keep the player on top of all other windows
- **Minimize:** To minimize the player.
- **Zoom:** To zoom in the player
- **Playlist:** To open a playlist. This window can be open with  on the right bottom corner of the player.



- **Control Panel:** To open a control Panel. This window can be open with  on the right bottom corner of the player.

