

MacCaption™ Player

Mac OS X based HD and SD video player for closed captioning kiosk installations.

MacCaption Player is a software program that is designed for video exhibits that require accessibility for deaf or hearing-impaired customers and patrons. The Player software can connect to a custom wall mounted button that can be accessed by the public in order to view subtitles over the video played on a standard HDTV.

This software based video player is designed to meet accessibility regulations, and is ideal for venues that require video playback, such as museums, digital signage, video walls, houses of worship, public displays, and broadcast.

For a printable brochure, click on
www.cpcweb.com/brochures/MacCaptionPlayerBrochureWeb.pdf

For a sample QuickTime video, click on
www.cpcweb.com/Player/MacCaptionPlayerVideo.zip

Web: www.cpcweb.com/Player

User Guide



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OVERVIEW

True HD video with captions -

MacCaption Player can playback high quality video at any resolution including 1920 x 1080 or 1080P HD. With MacCaption Player broadcast quality video can be played back directly to a kiosk screen. With Apple ProRes HQ and 444 codec, it delivers video quality that outperforms Blu-Ray disc and HDTV broadcast. The subtitles generated by MacCaption DTV (our subtitle preparation software) are uncompressed and are optimized for HD resolution playback with our MacCaption Player engine.

No network required -

MacCaption Player is a stand-alone application that does not require a network connection. This is intended for installations where network connections are not available. The MacCaption Player system completely takes the place of a standalone set top DVD player in kiosk installs.

Solid State Hard Drive -

For the best performance and durability a Solid State Hard Drive can be used in the Mac installed with MacCaption Player. Solid State Hard Drives have no moving parts and transfer data much faster than standard hard drives. This is critical when playing ProRes HD video clips in MacCaption Player that could drop frames and stutter on slower hard drives.

HARDWARE REQUIREMENTS

Minimum System Requirements -

Intel based Mac computer with OS X 10.5 and above with a Mini Displayport and at least 2 USB ports. We recommend a Solid State Hard Drive for ProRes HD video playback.

Recommended System Requirements -

For ProRes 1080P resolution we recommend MacPro or Xserve system running OS X 10.5 with secondary Solid State Hard Drive.

Wall Mounted Button -

2 Standard button with on/off switch and 2 prong connector.

HDMI adapter with Audio support model # MDPHU or Kanex iAdapt 51 -

To connect your Mac Mini, iMac, MacBook, or MacPro to a standard HDTV you must purchase a mini displayport adapter to HDMI. We recommend the MDPHU model from Conversions Technology or Kanex iAdapt 51 because it also sends audio through the HDMI connection, not just video. Please look on the link below for more information:

<http://kanexlive.com>

<http://www.conversionstechnology.com/ProductDetails.asp?ProductCode=MDPHU>

SOFTWARE/HARDWARE INSTALLATION

Installing MacCaption Player -

To install MacCaption Player there is a two step process outlined below:

1. Install the HASP protection driver from the CPC website or the included CD-ROM
2. Drag and drop the MacCaption Player program into the Mac system Applications folder

Connecting Keyboard encoder Box -

The Keyboard encoder box is already pre-programmed to work with MacCaption Player and simply needs to be connected to one of the Mac's USB ports. The MacCaption Player program will not run without this box connected to the USB port. When connected for the first time Mac OS X will pop up a window detecting the keyboard encoder box. Simply press continue and close the window. The USB box ships pre-configured.

Connecting Custom wall mounted buttons -

The wall-mounted buttons must have 2 prongs momentary switch. The 2 connectors on the buttons should be wired directly to the keyboard encoder box that ships with the MacCaption Player software.

CAPTION/SUBTITLE PREPARATION

MacCaption DTV software -

CPC sells MacCaption DTV software separately to professional video production facilities that need the highest quality subtitle generation and preparation for TV and Film. With MacCaption DTV, CPC has added a special output feature to generate separate subtitles for MacCaption Player. To export a video with separate subtitles simply open the MacCaption DTV subtitle project and go to top menu File>Export>Movie with Separate Subtitles.

Link to [cpcweb](#) (DTV, subtitle stuff)

SPECIAL TOPICS

Scheduling auto shutdown and start up on the Mac -

For permanent installations Mac the user can set up their computer to turn off and turn on at a specific time every day. To do this the user must go to System Preferences>Energy Saver and click on the Schedule... button.

To make sure that MacCaption Player launches on restart of you Mac go to System Preferences > Accounts > Select the login user and press the Login Items tab. This will give a list of applications that will open automatically during login. Make sure that MacCaption Player is in the applications folder of your Mac and that it is added to the

Login Items list.

EXPORTING CAPTIONS/SUBTITLES

Reference movie vs. self-contained -

MacCaption Player can play either a reference QuickTime movie containing the subtitles and pointers to the video/audio file or a self-contained QuickTime movie with both the Audio/Video and Subtitle layer in one file. When preparing and exporting a video with separate subtitles from MacCaption DTV software you will find options in the export window to select self-contained. If this option is deselected it will simply make a reference QuickTime movie with subtitles those points to the large video file on your desktop. In order for MacCaption Player to playback a reference QuickTime movie, both the reference .MOV file and the large video file must be present on the local hard drive. Self-Contained QuickTime movies with separate subtitles are relatively larger in size.

Compatible File Formats -

MacCaption player can play any QuickTime compatible file format but we recommend that it is wrapped in the MOV wrapper with MacCaption DTV software in order to have the subtitle on/off feature and an alpha channel subtitle layer.

MENU ITEMS

Control Menu

Disable Captions on Loop Playback -

Select this option if you want the subtitles of your video to automatically turn off when the video loops and restarts. This function is set so that subtitles are not always on for the display when not needed by patrons or customers who prefer to see the video without the subtitles.

Disable Captions at Enabled Time -

When the button is pressed, the subtitles are activated. Once activated, they will stay on until the button is pressed again or until the video reaches the same point in the replay at which the button was pressed originally. For example, if the button was pressed 2 minutes into the video, the subtitles will stay on until 2 minutes into the next replay. "Disable Captions on Loop Playback" will override this option.

Enable Captions on First Play -

Select this option if you want the subtitles to be on when the MacCaption Player begins to play your subtitled video. This function is set so that during start up of your Mac or when first opening a new video file with subtitles it can be visually checked for proper playback.

Open Last Movie on Start Up -

Select this option so that when launching MacCaption Player it will remember the last subtitled movie that was played. It is imperative that the .MOV subtitled video file be in the same location and folder on your Mac hard drive. If the .MOV file that was last opened is moved MacCaption Player will not open it and the user must manually open it again. This function is critical for installations that rely on the Mac OS X scheduled shutdown and restart of their Mac systems and need for MacCaption Player to auto launch on boot up and begin playback of their SD or HD video file with subtitles.

Play Full Screen on Start Up -

Select this option so that MacCaption Player will playback SD or HD video full screen by default when launched. This is another critical menu item for installation that rely on Mac OS X scheduled shutdown and restart of their Mac systems and need for MacCaption Player to not only auto launch on boot up but also playback video full screen automatically.

View Menu

Full Screen -

This option toggles between full screen mode and actual size on the video player. The keyboard shortcut for this is command + F. During full screen mode the cursor will disappear and all menu items will remain hidden until the Esc button is pressed. During "Full Screen" mode the cursor will also disappear in order have unobstructed full screen video playback.

Enable Captions -

This menu item is also controlled by the F1 key on the keyboard and turns on the subtitle alpha layer on top of the video layer for viewing. This option can only turn on the subtitle layer.

Disable Captions -

This menu item is also controlled by the F2 key on the keyboard and turns off the subtitle alpha layer on top of the video layer. This option can only turn off the subtitle layer.

Toggle Captions -

This menu item is also controlled by the F3 key on the keyboard and the 1st button connected to the keyboard encoder box supplied with the software from CPC and either turns on/off the subtitle alpha layer on top of the video layer. The installed button on the wall of the exhibit should be connected to the keyboard encoder box in order to enable proper control of this feature. See "Software/Hardware Installation" section for more details.

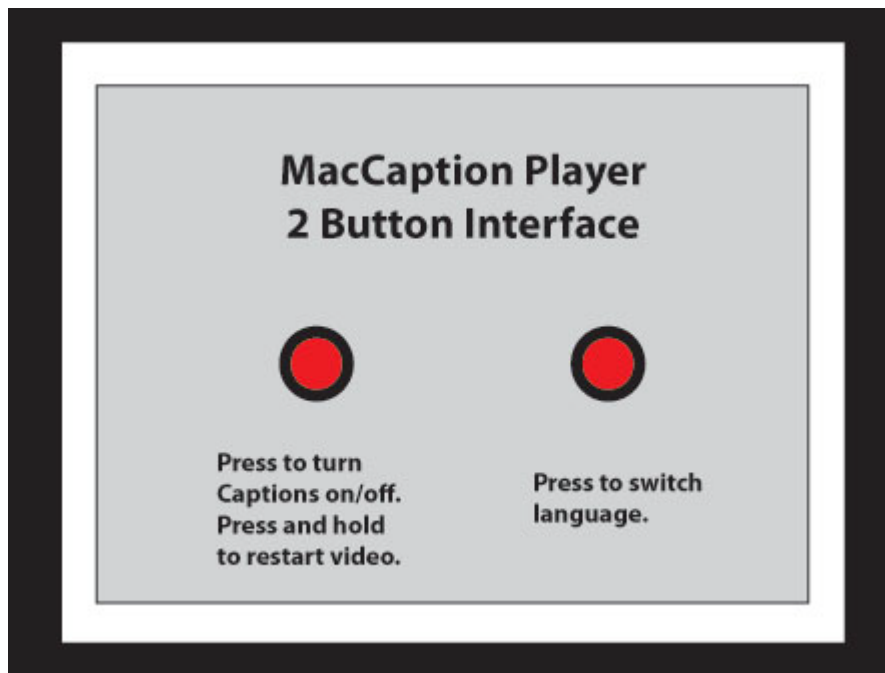
Next Caption Track-

This menu item is controlled by the F4 key on the keyboard and the 2nd button on the

keyboard encoder box supplied with the software from CPC. This function lets the viewer switch subtitle/caption languages until the desired language is selected on the screen.

Restart Movie from Beginning -

This is a hidden menu item which allows the user to restart the movie from the beginning at any given point. To restart the movie simply press either F1, F2, or F3 buttons and hold down for 2 seconds. Similarly a tour guide or museum expert can press and hold the custom wall mounted button for 2 seconds and restart the movie from the beginning.



TROUBLE SHOOTING

Can't access the menu when playing full screen -

When playing full screen it is necessary to press the escape key "esc" on the keyboard in order to access the top menu of MacCaption Player.

Player doesn't launch when I start up the Mac -

Make sure to check in your System Preferences > Accounts > Select the login user and press the Login Items tab. This will give a list of applications that will open automatically during login. Make sure that MacCaption Player is in the applications folder of your Mac and that it is added to the Login Items list.

10 minute warning appears during scheduled shutdown -

By default Mac OSX 10.5 and above will pop up a warning window when it is about to schedule a shutdown of the Mac. This is normal and should be accounted for.

MacCaption Player will not launch –

Make sure that the USB protection dongle and/or keyboard box containing the USB protection dongle is connected properly to the Mac computer

APPENDIX

Alpha Channel - In the case of MacCaption Player the Alpha Channel refers to the layer in the QuickTime movie where the subtitles reside. There is an Alpha Channel around each letter of text in order for MacCaption Player to superimpose the subtitles on top of the video being displayed.

Codec - This refers to the type of compression and format associated with the video clip being played in MacCaption player. For optimum quality it is recommended to use ProRes variety or H264 video compression codec. The subtitle layer is typically in the Animation codec but can also be any codec that supports Alpha channel (also known as Millions of Colors +) including ProRes 444.

Slate - Because MacCaption Player automatically loops video it is recommended that a 10 second slate or pad be present at the beginning with a countdown for viewers to have time to find a good viewing place in the audience. This is critical in theatre installations.