

Apple Speech Recognition With CameraRC Deluxe

Introduction

CameraRC Deluxe uses Apple's integrated Speech Recognition to execute basic commands such as auto focusing the camera and initiating shutter releases; also provided are additional voice commands to make operating Live View a hands free operation. The speech capabilities are available and tested with MacOS versions Yosemite and newer. CameraRC Deluxe also requires that Custom Speech Dictation commands be enabled. The speech commands available in CameraRC Deluxe are shown in the tables at the end of this document.

Setting up Speech Recognition is a fairly simple operation and there are many tutorials available on the Internet. Rather than attempt to recreate these tutorials we will recommend some good ones that you can follow and will provide detailed instructions where necessary. While many of the tutorials reference a specific MacOS version they should apply to all version supported.

If you are already using some other speech recognition software, you can just add our commands as shown in **Table 1** to you current speech recognition software.

Setting Apple Speech Recognition

Apple Speech Recognition is an integrated component on all releases of MacOS from Yosemite and later. We recommend the following tutorials for setting up basic Speech Recognition:

- YouTube – [Dictation on a Mac](#)
- Written Instruction – [Use your voice to enter text on your Mac](#)

Make sure that you have enabled the Enhanced Dictation option. If you find that Speech Recognition is not accurately recognizing your speech try the follow article from Apple has some suggestions https://support.apple.com/kb/PH21845?locale=en_US.

Setting up Custom Dictation Commands

Custom Dictation commands are used by CameraRC Deluxe to provide specific commands used by the program.

Some tutorials/instructions on installing this option are the following:

- YouTube – [Using Dictation Commands on Your Mac](#) – Specific setup instructions start around 2 minutes.
- Written Instructions – [Use Dictation Commands to tell your Mac what to do](#)

Make sure that you have checked the “Enabled advanced commands” checkbox.

Installing the CameraRC Deluxe Speech Commands

As part of installing CameraRC Deluxe we provide a set of specific commands that must be installed in order to control the program. The installation of these commands depends on whether you currently are using custom dictation commands on your Mac or not. Please follow the appropriate directions below:

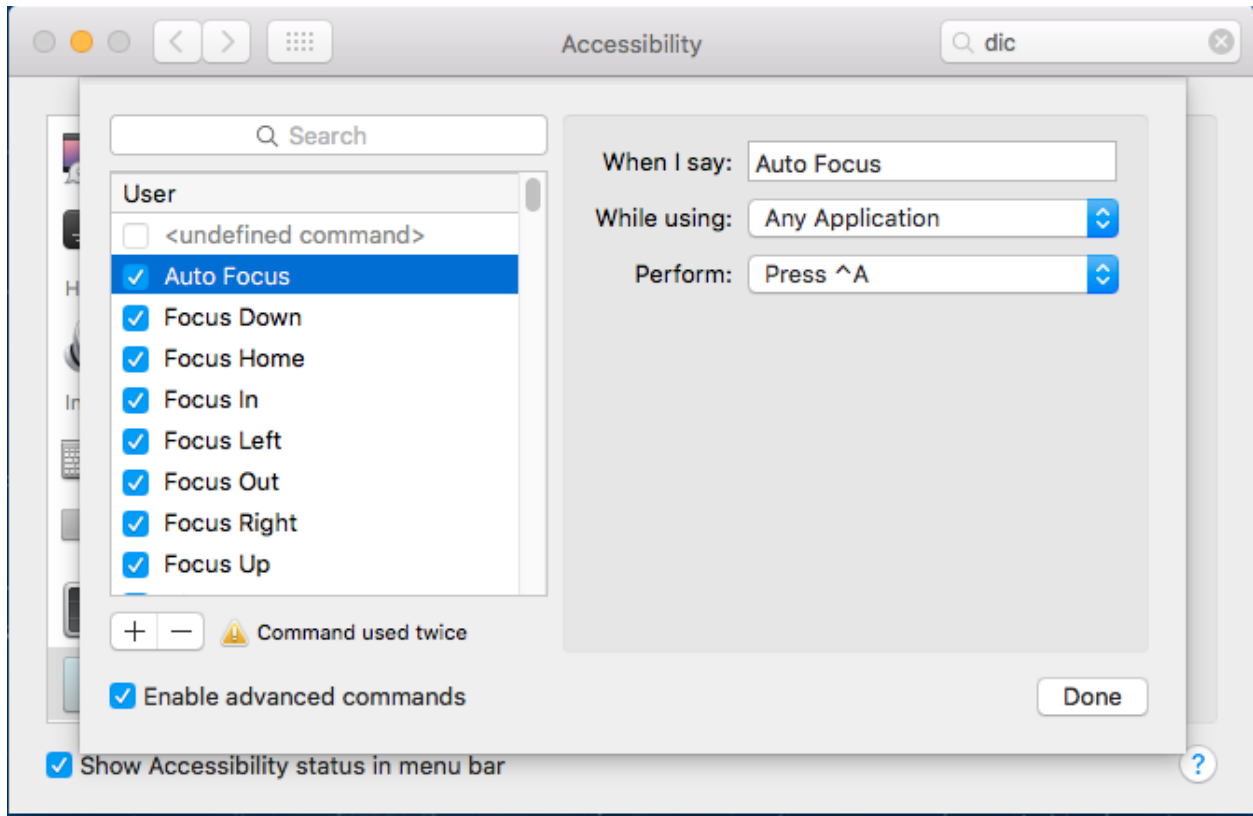
Not Using Dictation Commands

1. If you are using Speech Recognition for the first time or have not used created your own commands under the Dictation section of Accessibility then you can follow these directions.
2. Stop Dictation by going to Dictation and Speech in the preferences and setting the Dictation to Off.
3. The Speech Commands for CameraRC Deluxe are initially installed as the file: /users/<user name>/j-prosoftware/CameraRC Deluxe/samples/com.apple.speech.recognition.AppleSpeechRecognition.CustomCommands.plist
4. The file in step 2 should be moved to the /users/<user name>Library/Preferences directory.
5. Turn Speech Dictation back on.
6. If you now open the Dictation section in Accessibility and then open the Dictation Commands you should now see the CameraRC Deluxe Commands as shown in Table 1 below – if you don't see the commands make sure the "Enable advanced commands" is checked.
7. You should now be able to use the commands.

Currently Using Dictation Commands

If you are currently using Custom dictation commands then you will already have a com.apple.speech.recognition.AppleSpeechRecognition.CustomCommands.plist file in the /users/<user name>Library/Preferences directory. If this is the case then you will need to manually enter the commands used by CameraRC Deluxe as Advanced Commands. To manually enter the commands use the following directions:

1. Select "Dictation commands..." from the Dictation selection of Accessibility. You will see a window as shown on the following page.
2. For each command as shown in **Table 1** of this document enter the voice command in the "When I Say:" box.
3. Leave the "While Using" at "Any Application" (See section on "**Issues with Apple Speech Recognition**" below for why).
4. Select "Press Keyboard Shortcut..." in the "Perform:" box.
5. Press the keys as specified in the Key Code for the command as shown in table **Table 1**.
6. Once all codes or those you want to use have been entered you can use the commands.



Changing a CameraRC Deluxe Dictation Command

If you want to change the words used for the commands or you are speaking in a language other than English you can edit Dictation Commands to use your preferred command words. To change a command open the Dictation Commands window shown above, select the command you want to change, and enter the new word(s) to be used.

Using Speech Recognition

1. Start Speech Recognition using the method you selected in “**Setting Up Apple Speech Recognition**”.
2. A microphone icon should appear on the desktop indicating that speech recognition is active.
3. Start CameraRC Deluxe. Once the program is started you will need to select the Main Window to have a command executed.
4. Make sure that the window is selected on the screen for speech commands to execute.

Issues with Apple Speech Recognition

We have noted a couple of issues with Speech Recognition on Apple computers when used with CameraRC Deluxe:

- Under some circumstances if Speech Recognition is running when CameraRC Deluxe is started it can cause the program to fault or not start. To resolve this issue turn off speech recognition prior to starting CameraRC Deluxe.
- The application identification of MacOS for some reason does not recognize the program CameraRC Deluxe as part of specifying a speech command. Because of this the speech commands added by CameraRC Deluxe will be recognized by all programs.
- Speech recognition can at times be slow – make sure you clearly enunciate the commands and give the speech recognition time to respond and learn.

CameraRC Deluxe Custom Dictation Commands

The following table shows the commands that are imported in the com.apple.speech.recognition.AppleSpeechRecognition.CustomCommands.plist file. The suggested voice commands can be changed as desired. Notice that you should avoid words that can conflict with diction if you use voice dictation for other purposes.

Table 1

Suggested Voice Command	Key Code	Operation
Auto Focus	(Ctrl)A	Initiate Auto Focus
Focus Down	(Ctrl)D	Move Focus Point Down (Live View Only)
Focus Home	(Ctrl)H	Move Focus Point Home (Live View Only)
Focus In	(Ctrl)6	Move Focus Inward (Live View Only)
Focus Left	(Ctrl)T	Move Focus Point to Left (Live View Only)
Focus Out	(Ctrl)7	Move Focus Outward (Live View Only)
Focus Right	(Ctrl)R	Move Focus Point to Right (Live View Only)
Focus Up	(Ctrl)U	Move Focus Point Up (Live View Only)
Histogram	(Ctrl)G	Open Histogram
Image Viewer	(Ctrl)I	Open/Close Image Viewer
Live View	(Ctrl)L	Open/Close Live View
Move In	(Ctrl)=	Zoom Image In
Move Out	(Ctrl)-	Zoom Image Out
Next Image	(Ctrl)[Move to Newer Image (Image Viewer Only)
Previous Image	(Ctrl)]	Move to Older Image (Image Viewer Only)
Properties	(Ctrl)P	Open Properties Window (Image Viewer Only)
Shoot	(Ctrl)X	Initiate Shutter Release
Thumbnails	(Ctrl)T	Open Thumbnails Window
Zoom Actual	(Ctrl)/	Zoom Image to 100% (Image Viewer Only)
Zoom Fit	(Ctrl)8	Zoom Image to Fit Window

CameraRC Deluxe Speech Commands

The table below shows the speech commands available in the various CameraRC deluxe windows:

CAMERA CONTROL PANEL

Speech Command	Operation
Auto Focus	Autofocus Camera
Image Viewer	Opens/Closes Image Viewer
Live View	Start/Close Live View
Shoot	Shutter Release
Thumbnails	Opens/Closes Thumbnails

LIVE VIEW WINDOW

Speech Command	Operation
Auto Focus	Autofocus Camera
Focus Down	Move Focus Point Down
Focus Home	Move Focus Point to Home
Focus Left	Move Focus Point Left
Focus Right	Move Focus Point Right
Focus Up	Move Focus Point Up
Focus In	Focus Live View In
Focus Out	Focus Live View Out
Live View	Stop Live View
Move In	Zoom Live View In
Move Out	Zoom Live View Out
Shoot	Shutter Release
Zoom Fit	Zoom Live View to Full

IMAGE VIEWER WINDOW

Speech Command	Operation
Autofocus	Autofocus Camera
Histogram	Show Image Histogram
Image Viewer	Close Image Viewer
Move In	Zoom Image In
Move Out	Zoom Image Out
Next Image	Move to New Image
Previous Image	Move to Older Image
Properties	Show Image Properties
Shoot	Shutter Release
Zoom Actual	Zoom Image to 100%
Zoom Fit	Zoom Image to Fit in Window