

# Windows Speech Recognition With CameraRC Deluxe

## Introduction

CameraRC Deluxe uses [Windows 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 with the [Microsoft supported speech languages](#) - Note that only a subset of the languages supported by Windows also support speech recognition. CameraRC Deluxe also requires that the [Windows Speech Recognition Macros package](#) be installed on the computer. The speech commands available in CameraRC Deluxe are shown in the tables at the end of this document.

Setting up Speech Recognition and Speech Recognition Macros 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 only discuss Windows Vista and Windows 7, they do apply to all versions of Windows up to Windows 10.

## Setting Up Windows Speech Recognition

Windows Speech Recognition is an integrated component on all releases of Windows from Vista to Windows 10. We recommend the following tutorials for setting up basic Speech Recognition:

- YouTube – [Free Speech Recognition Tutorial 1](#) – The actual setup instructions start at about 3:30 into the tutorial.
- Written Instruction – [How-To Geek Speech Recognition](#)
- Getting Started Guide - <http://www.mymsspeech.com/download/WSRGetStarted.pdf>.

If you find that Speech Recognition is not accurately recognizing your speech you can use the speech training option to improve recognition; you find Speech Training under Speech Recognition selection in the Control Panel.

## Installing and Setting Up Speech Recognition Macros

Windows Speech Recognition Macros are used to provide specific voice commands used by CameraRC Deluxe. A set of Macros is provided with CameraRC that are used to execute the various commands. A list of available voice command is found at the end of this document.

The first step in setting up the Speech Recognition Macros is to download the installation package from the Microsoft at <https://www.microsoft.com/en-us/download/details.aspx?id=13045>. Please download both the MSI file for installing the package and the release notes.

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

- YouTube – [Free Speech Recognition Tutorial 11](#)
- Written Instructions – See the downloaded release Notes.

### **Installing the CameraRC Deluxe Speech Macros**

1. The Speech Macros for CameraRC Deluxe are initially installed in the following directory:
  - a. "c:/Program Files (X86)/J-Prosoftware/CameraRC Deluxe/Speech Macros"
  - b. Or "c:/Program Files/J-Prosoftware/CameraRC Deluxe/Speech Macros" on 32 bit Windows.
2. Move all files in the above to directory to the "C:\Users\\Documents\Speech Macros" Directory.
3. It is recommended that you sign macros used to prevent malicious activities:
  - a. First create a certificate by right clicking on "Windows Speech Recognition Macros" in the System tray and selecting "Security" and then "Create Signing Certificate...".
  - b. Set Security Level to Medium or High
  - c. Now select all the Macro Files that were moved to the Documents/Speech Macros folder.
  - d. Right Click on the selected files and select "Sign Speech Macros..."
  - e. Respond to each request approving the signing for each macro.
  - f. Notice that the certificate you created is temporary and will expire within 24 hours. If you need to later sign any macros on a later day you will need to create a new certificate.
4. You should now be able to use the commands.

### **Changing a CameraRC Deluxe Speech Macro**

If you want to change the words used for the commands or you are speaking in a language other than English you can edit the macro files in Notepad and change the command words. When you open a Macro File it will appear as follows (Notice a Signature section has been removed for clarity) – in this example we show the contents of the Auto Focus Macro:

#### **AutoFocus.WSRMac File**

```
<?xml version="1.0" encoding="UTF-16"?>
<speechMacros>
  <appIsInForeground processName="CameraRC_Deluxe.exe"/>
  <command>
    <listenFor>Auto Focus</listenFor>
    <sendKeys>{{CTRL}}A</sendKeys>
  </command>
</speechMacros>
```

In the file change the words between the "Listen for tags". For example to change the trigger word to Auto Focus change the highlighted text to the desired word(s). To change the fire macro:

1. Open the Auto Focus.WSRMac file in Notepad.
2. Change the trigger word "Auto Focus" between the <listenFor> and </listenFor> tags.
3. Save the file.
4. Resign the file with your certificate.

### **Using Speech Recognition**

1. Start the speech recognition macros from the start bar – this should automatically also start speech recognition. Notice that both the “Windows Speech Recognition Macros” and “Speech Recognition” icons should be open in the notify section of the task bar.
2. Windows Speech Recognition will normally start in a sleeping mode. Wake up the speech recognition either by clicking on the microphone or using the “Start Listening” voice command.
3. Start CameraRC Deluxe. Once the program is started you will need to select the Main Window to have a command executed (use the “**Switch to CameraRC**” command to use a voice command).

## **CameraRC Deluxe Speech Commands**

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

### **GENERAL COMMANDS**

Speech Command	Operation
Switch to CameraRC	Switches to the Camera Control Window
Switch to Live Viewer	Switches to the Live View Window
Switch to Image Viewer	Switches to the Image Viewer Window
Switch to Thumbnails	Switches to the Thumbnails Window

### **CAMERA CONTROL PANEL**

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

### **LIVE VIEW WINDOW**

Speech Command	Operation
Auto Focus	Autofocus Camera
Close	Close Live View Window
Fire	Shutter Release
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
Shoot	Shutter Release
Smile	Shutter Release
Zoom Fit	Zoom Live View to Full
Zoom In	Zoom Live View In
Zoom Out	Zoom Live View Out

### **IMAGE VIEWER WINDOW**

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