



Step By Step Guide

Using the Lens Advisor Program

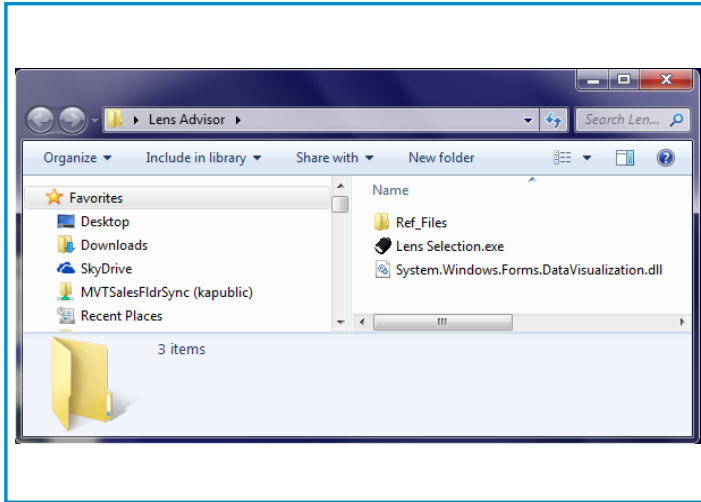
9-Jan-2015

www.visionsystem.com

Copyright© KEYENCE CORPORATION. All rights reserved.

Step By Step Guide

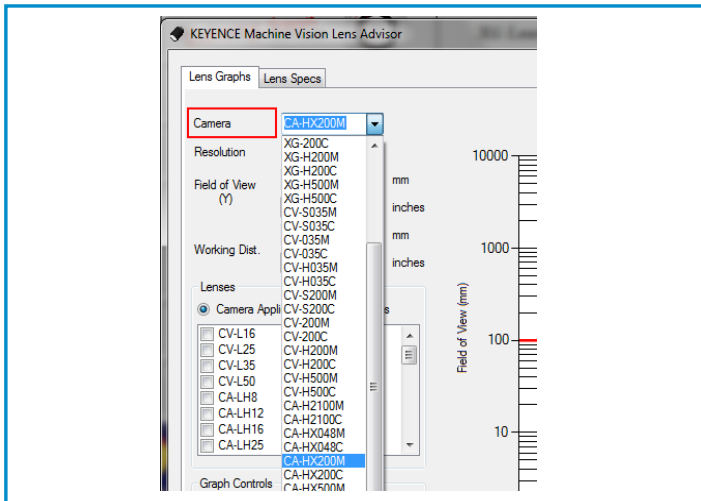
§ Step 1: Unzip the Lens Advisor Files



Once the Lens Advisor folder is unzipped, it will contain a "Ref_Files" folder, executable file and a DLL file. You can store these anywhere on your PC, but keep these files in together in the same folder.

When you want to run the Len Advisor, simple run the "Lens Selection.exe" file.

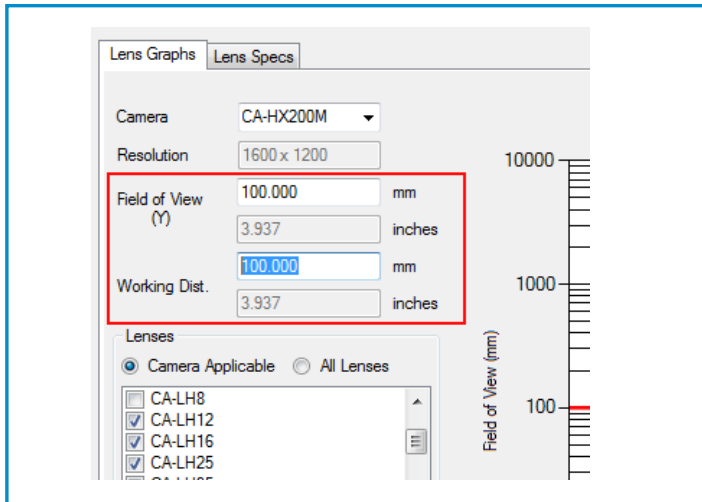
§ Step 2: Select the Camera



Once the file is executed, it will launch the KEYENCE Machine Vision Lens Advisor. The first thing to do will be to select the camera that you are using. This is selected from the Camera drop-down list.

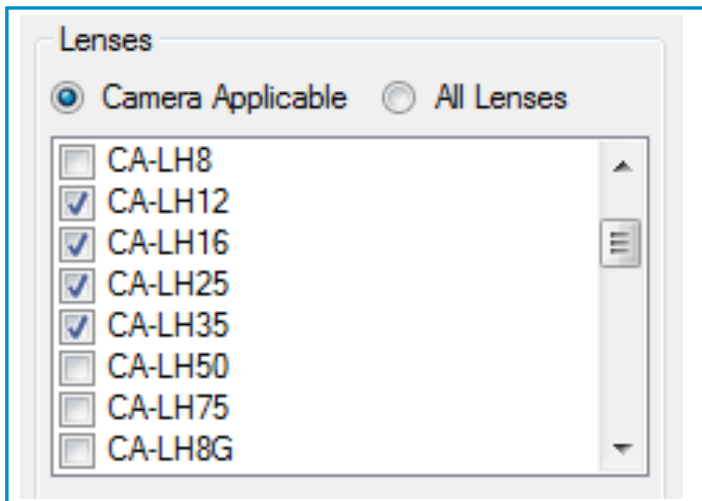
Step By Step Guide

§ Step 3: FOV & Working Distance



Enter the desired Field of View (FOV) in the Y direction and the Working Distance (WD) into the entry fields.

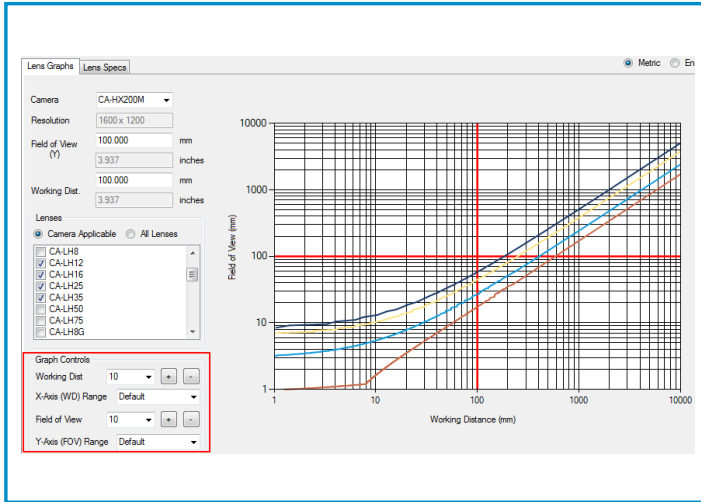
§ Step 4: Select Lenses



Select the lens or lenses that you want to see on the lens graph. You can choose more than one lens if you like to compare. As a default, the lenses applicable to the selected camera will be displayed.

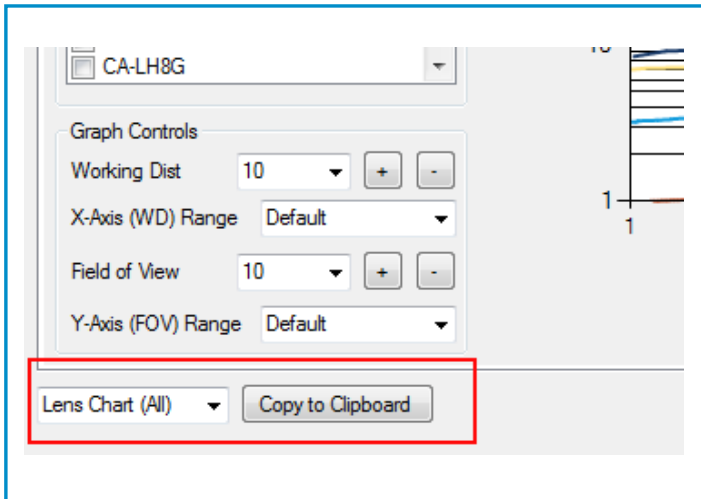
Step By Step Guide

§ Step 5: Lens Graph



Once the desired lens has been selected, the focus range for each will be plotted on the graph. You can use the graph controls to adjust the FOV and WD in order to find an intersection point on one of the lens plots. The FOV and WD lines need to BOTH intersect one of the lens plot lines in order for the image on the camera to be in focus.

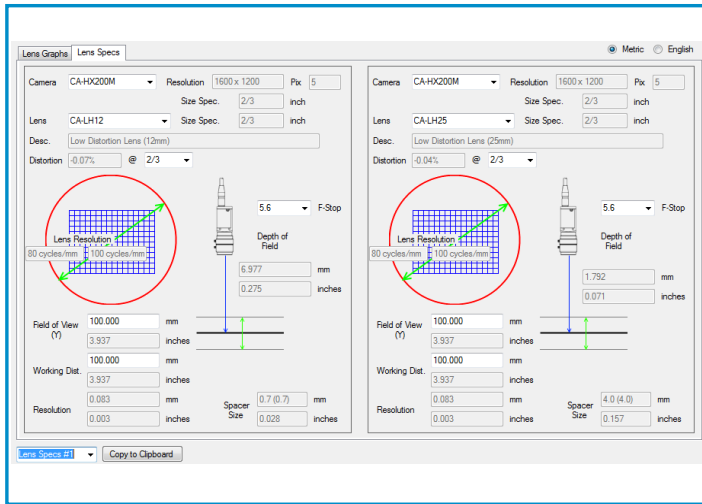
§ Step 6: Copy to Clipboard



Once you have the desired FOV and WD range set on the graph, you can copy the Lens Chart and all the information (or just the graph itself) to the Windows clipboard. You can then paste it in to your other documents, etc.

Step By Step Guide

§ Step 7: Lens Specs Tab



The Lens Specs tab of the Lens Advisor can be used to do a side by side comparison. You can freely select a camera and a different lens on each side in order to do a comparison.

The FOV and WD can be change separately on each side as well. The pixel resolution as well as spacer size (if applicable) will be displayed.

The F-Stop setting can be adjusted in order to get an idea of the expected Depth of Field under the specified lens condition.

As with the Lens Graph tab, the information can be copied to the clipboard to be pasted in other documents.