

## **Back Focus Adjustment**

When installing a lens onto a camera you may have to adjust the back focus in order to have proper focus. Use the following methods to set the correct back focus:

### **For Fixed Focal Length Lenses**

- 1) Attach lens to camera and turn camera power on.
- 2) Place a neutral density filter (CBF-1) in front of the lens and open the iris to its widest position. (If lens has an auto-iris, the dark filter will cause the iris to open automatically). **Note:** It is important for the iris to be fully open during the following procedures.
- 3) Set the focus rings on the lens to the infinity position.
- 4) View a distant object (the more telephoto the lens is, the farther the distant object should be).
- 5) Adjust the mechanical focus\* on the camera to bring the image into the sharpest focus.
- 6) After back focus is set, you can adjust focus and iris to desired positions.

### **For Zoom Lenses**

- 1) Attach lens to camera and turn camera power on.
- 2) Place a neutral density filter (CBF-1) in front of the lens and open the iris to its widest position. (If lens has an auto-iris, the dark filter will cause the iris to open automatically). **Note:** It is important for the iris to be fully open during the following procedures.
- 3) Zoom the lens to the telephoto position ("Zoom In" position on the lens controller).
- 4) Operate the lens focus to get a sharp picture ("Focus Near" on lens controller).
- 5) Zoom lens to the wide position ("Zoom Out" on lens controller).
- 6) If picture is out of focus, adjust the mechanical focus\* on the camera to bring image into the sharpest focus.
- 7) You can repeat the above steps to fine-tune the back focus if you need to.
- 8) After back focus is set, you can adjust zoom, focus and iris to desired positions.

\*See your camera manual for instructions on how to adjust the mechanical focus (Also known as back focus)