

Back Focus Adjustment

Note: This procedure is best if using a neutral density filter or by using a #6 or #8 welder's glass in front of the lens mounted on the camera. The focus of a camera will change slightly if the camera was focused on a light scene when it changes to a dark scene, day to night. The camera will remain in focus if it was focused on a dark scene and the scene lightens.

1. If a picture is visible, focus the picture by turning the focus ring on the lens. If a picture is not visible, open the iris on the lens. Once a picture is obtained, focus the camera and continue. (If an auto-iris lens is mounted on the camera follow the procedure below to obtain a picture.)
2. Open the iris of the camera as wide as possible. (This is done by adjusting the iris ring on the camera for the brightest picture possible or by placing a welder's glass in front of the auto-iris lens forcing the lens to automatically open. If you cannot see the picture with the welder's glass in front of the camera, the lens may need to have the iris opened more. Turn the ALC control on lens or camera to brighten or darker the image.)
3. Once the lens iris is opened to the widest point, readjust the focus for the clearest picture. If the focus ring on the camera will not allow for a clear picture, place the focus ring at the mid-point of its range.
4. Loosen the back focus lock screw.
5. Adjust the back focus ring on the camera for the clearest picture.
6. Tighten the back focus lock screw.
7. Make fine focus adjustments with the focus ring on the lens.
8. Remove the welder's glass from in front of the lens.
9. Adjust the iris of the lens for the best picture quality.

Zoom Lens Models

1. With the camera operating adjust lens to obtain a clear image
2. Adjust the focus to stop on the far range
3. Adjust the zoom on the lens to obtain the widest picture.
4. Place filter in front of lens
5. Adjust the back focus ring on the camera for the clearest picture
6. Move the lens so it is at the extreme telephoto
7. Adjust the focus for the best picture
8. Adjust the zoom on the lens back to the widest view
9. Re adjust back focus for the clearest picture
10. Repeat the previous steps until you maintain a clear image through the entire zoom range.