

SYNCHRONISED ZOOMING

SDM allows you to zoom your camera lenses in or out in equal steps using your USB switch. **Note:** This only works on cameras that have a single zoom lever or switch and not on cameras that have separate buttons for zooming in and zooming out.

To use this function you must enable synchronous zooming by going to the **Stereo** menu in SDM and setting the **Sync Zoom** to something other than **Off** (we will explain the two synchronous zooming modes later). You also must set the **Zoom time-out** value. This is the number of seconds that the camera will stay in synchronous zoom mode after the last zoom input. The Zoom time-out values range from two to ten seconds and should be set to the shortest value that you can comfortably operate your zooms. (Remember, you must select the same synchronous zooming mode and set the same time-out values in both cameras or the zooms will not act the same).

To enter the synchronous zoom mode, quickly move both cameras' zoom levers and release. The cameras will zoom in the direction that you selected with the levers, so both levers must be moved to either wide-angle or telephoto, or the cameras will zoom in opposite directions. If you hold the levers too long, the cameras will bypass the synchronous zoom mode and zoom the lenses as they normally would. If done properly the blue LEDs will light to let you know that the cameras are now in synchronous zoom mode. To zoom, quickly press-and-release the USB switch to move one zoom step (the number and size of the zoom steps are SDM defined and vary between camera models). To zoom in the opposite direction simply move the cameras' zoom lever in that direction and repeat the above steps.

You cannot use any of the other SDM functions or fire the camera shutters until you have exited zoom mode. To exit zoom mode, half-press the camera shutter, half-press the Ricoh switch, or let it time-out. This is where the **Zoom time-out** value becomes important because the Zoom time-out clock restarts every time you press the USB switch or the zoom levers, and you must either wait for the time-out or manually take the cameras out of synchronous zoom mode. If this time is too long it could cause you to miss a shot!

The two **Sync Zoom modes** are **Continuous** and **Single**. **Continuous** mode causes the lenses to zoom in the opposite direction once the zoom maximum/minimum has been reached. **Single** mode zooming will stop when the maximum or minimum threshold has been reached, and you will have to actuate the cameras' zoom levers in the other direction to reactivate zooming.

SYNCH ZOOMING TROUBLESHOOTING

If one camera lens zooms, but the other does not, first check your USB connections, then check that your USB switch's battery has a full charge.

Some cameras will freeze at the end of a zoom cycle and no button or switch inputs will release them. The only fix is to power down then power up your cameras. David indicated that there may be a possible fix for this problem, but he needs to know which cameras and which mode this occurs. Please post your camera and mode to the SDM users' group list.

Ricoh/ordinary switch difference: The Ricoh switch sends a single pulse to the cameras when held down in a full press, so the cameras will zoom one step. The ordinary switch sends a continuous electrical signal, so holding it down will zoom the lenses step after step until you release.

If exiting the Synch Zooming mode by half-pressing the cameras' shutter buttons and you are taken out of sync mode, you have probably given the shutter button a full press. You will need to power down then power back up to get back into sync mode.

Occasionally one camera will zoom one more step than the other and be at a different focal length than the other camera, so **every time** you finish zooming you must **check the focal length readings** to be sure that they match.