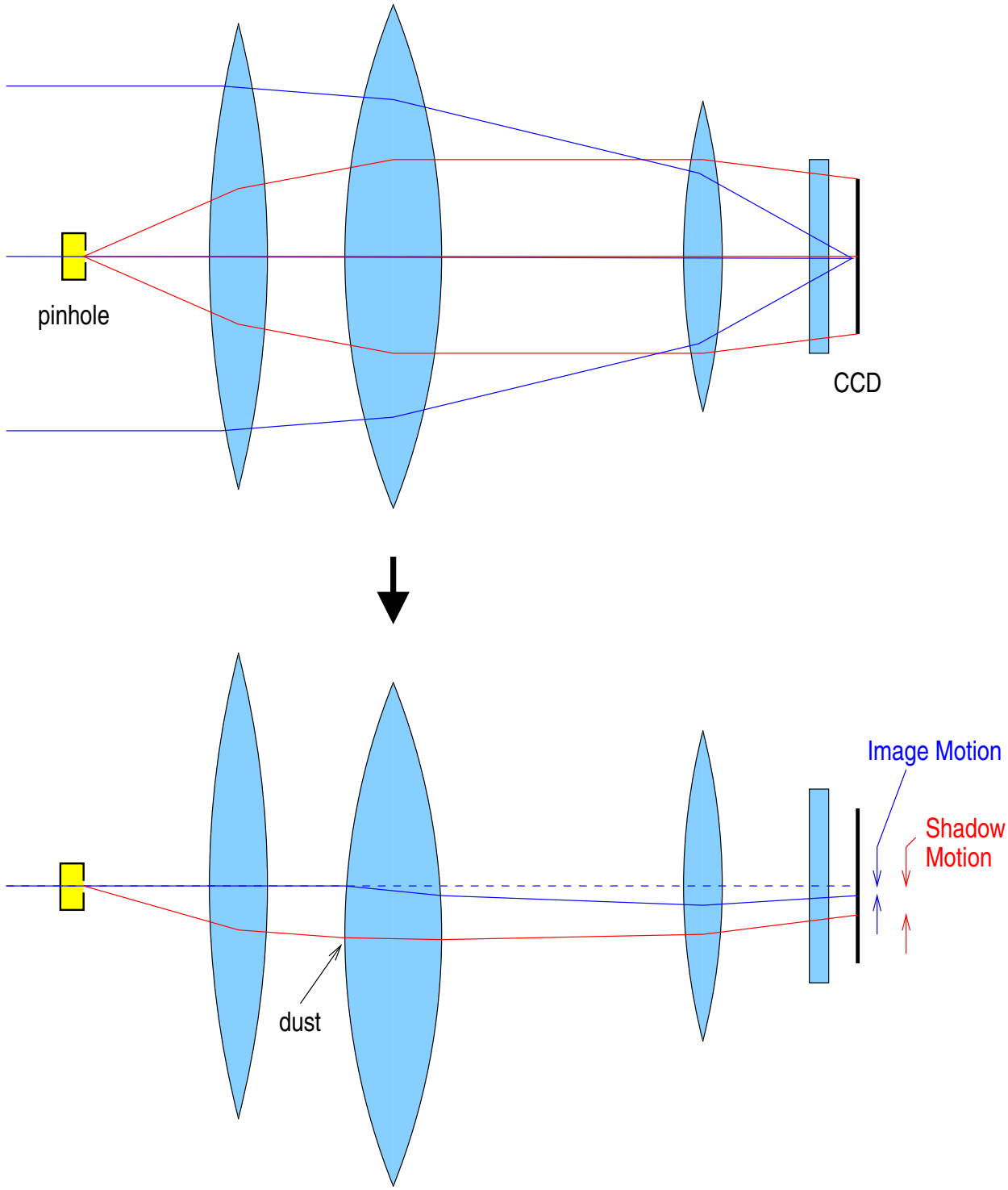

At top is a schematic of the camera and rays from 2 sources, the collimated illumination (blue) and the pinhole illumination (red). In the lower figure, one element has been offset, resulting in image motion (blue) and "dust-shadow" motion (red; the example is for on-axis image and dust). Since the amount of image motion is different than the shadow motion, the moving element can be identified.