

**Zero
Parallax**



The diagram illustrates the concept of zero parallax in a binocular system. At the bottom, there are two rectangular blocks representing the eyepieces of a binocular. The left eyepiece is outlined in cyan, and the right eyepiece is outlined in red. From the top of each eyepiece, a pair of dashed lines diverges upwards. From the cyan eyepiece, the lines are cyan; from the red eyepiece, the lines are red. These lines represent the optical paths of light from a distant object. A vertical dashed grey line runs through the center of the diagram, representing the optical axis. Two horizontal black lines are drawn at different heights, representing the pupils of the eyepieces. The text 'Zero Parallax' is positioned in the upper right area of the diagram. The fact that the diverging lines from both eyepieces appear to originate from a single point on the central axis indicates that the system is perfectly aligned, resulting in zero parallax.