

Objective Lens

Image Lens



A ray diagram of a telescope. Two parallel red lines enter from the left, pass through a large blue convex lens (labeled 'Objective Lens'), and converge at a point. From this point, two red lines diverge and pass through a smaller blue convex lens (labeled 'Image Lens'), which then makes them parallel again as they exit to the right.

$$L = \text{Focal Length}_{\text{Objective Lens}} + \text{Focal Length}_{\text{Image Lens}}$$