

ABSTRACT

There is provided a zoom lens system including at least a first lens group GR1 having a positive refractive power, a second lens group GR2 having a negative refractive power, a third lens group GR3 having a positive refractive power, a fourth lens group GR4 having a negative refractive power, a fifth lens group GR5 having a positive refractive power, and a sixth lens group GR6 having a negative refractive power, arranged sequentially from the object side. Zoom ratio is varied by changing the distance between the adjacent lens groups. The distance, taken as $DW(i-j)$, between the i - and j -th lens groups at the wide angle end during at-infinity imaging and that, taken as $DT(i-j)$, between the i - and j -th lens groups at the telephoto end during at-infinity imaging meet the following conditions (1), (2), (3), (4) and (5)

$$(1) \quad DW(1-2) < DT(1-2)$$

$$(2) \quad DW(2-3) > DT(2-3)$$

$$(3) \quad DW(3-4) > DT(3-4)$$

$$(4) \quad DW(4-5) < DT(4-5)$$

$$(5) \quad DW(5-6) < DT(5-6)$$

and focusing is made by moving the fourth lens group GR4 axially of the lenses.