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ABSTRACT

A catadioptric optical system which facilitates optical adjustment and mechanical design, fully corrects aberrations beginning with chromatic
5 aberrations and achieves a high resolution of 0.1 μm or less, and includes the first imaging optical system (G1) for forming the first intermediate image of the first surface (R), the first folding mirror (1) arranged in vicinity of the first intermediate image,
10 the second imaging optical system (G2) having a concave mirror (CM) and at least one negative power lens (3), the second folding mirror (2), and the third imaging optical system (G3). A reflecting surface of the first folding mirror and A reflecting surface of
15 the second folding mirror are positioned so that they do not overlap spatially.