



G00002

132



162162

ABSTRACT

When actual measurement data of a wavefront
aberration of a projection optical system (PL) is input,
a main controller (50) calculates a targeted image
5 forming characteristic of the projection optical system
based on the data and a Zernike variation table of the
image forming characteristic that is made prior to the
input. By using the Zernike variation table, the targeted
image forming characteristic can be calculated with only
10 one measurement of wavefront aberration. Moreover,
parameters that denote a relation between an adjustment
of an adjustable specific optical element (13_1 to 13_4) and
a change in the image forming characteristics of the
projection optical system is obtained in advance, and are
15 stored in advance in a storage unit (42). Then, when the
measurement data of the image forming characteristic of
the projection optical system is input, the main
controller calculates a targeted adjustment amount of the
specific optical element using a relation expression
20 between the measurement data, the parameters, and the
targeted adjustment amount of the specific optical
element, and adjusts the specific optical element based
on the calculation results.