

Abstract

A measuring apparatus (14) for measuring the trajectory of a target object (12) comprises a receiving device (16) having a primary mirror (32) and a secondary mirror (34); a first detector (42) for detecting first electromagnetic radiation (24) having a first wavelength and a second detector (62) for detecting second electromagnetic radiation (28) having a second wavelength. The primary mirror (32) is designed to reflect the first electromagnetic radiation (24) and the second electromagnetic radiation (28) and to direct said radiation onto a focal region. The secondary mirror (34) is arranged between the primary mirror (32) and the focal region and is designed to reflect only the second electromagnetic radiation (28) in the direction of the second detector (62). The first detector (42) is arranged behind the secondary mirror (34) in the focal region of the primary mirror (32).

[Fig. 2]