

ABSTRACT

An azimuth support (102) is rotatable around an azimuth axis. An elevation support (104) is rotatable around an elevation axis. An auxiliary support (103) is rotatable around an auxiliary axis that is perpendicular to the elevation axis. An antenna control device (400) calculates a command orientation direction that is a direction in which a parabolic antenna (108) is oriented. At initial capture of a communication target, the antenna control device (400) sets an original point of an auxiliary axis to a midpoint of a rotation range of the auxiliary axis and sets an original point of an azimuth axis and an original point of an elevation axis to an azimuth angle and an elevation angle of the command orientation direction. The antenna control device (400) calculates a drive command value indicating amounts by which the azimuth support (102), the elevation support (104), and the auxiliary support (103) are driven so that (i) the parabolic antenna (108) directs in the command orientation direction and (ii) a sum of amounts of change of the azimuth axis, the elevation axis, and the auxiliary axis from the original point is minimized. The antenna control device (400) controls the azimuth support (102), the elevation support (104), and the auxiliary support (103) in accordance with the drive command value.