

ABSTRACT

A trolley-wire measurement device includes a rail detection unit (21) to detect rails from point-group data (11) that is an aggregate of points obtained by measuring a target object three-dimensionally, the rails defining a railway on which a train runs, a reference setting unit (22) to set a reference for measuring a height and a displacement of a point on a trolley wire on the basis of the rails detected, a trolley-wire detection unit (30) to detect the point on the trolley wire from the point-group data (11), and a height and displacement measurement unit (40) to measure a height and a displacement of the point on the trolley wire by using the reference.