

ABSTRACT

DISTANCE ESTIMATION DEVICE, MOBILE TERMINAL, DISTANCE ESTIMATION
METHOD, AND PROGRAM

5 A phase rotation amount of each of subcarriers is calculated by calculating a difference
between the first phase difference and the second phase difference between consecutive
subcarriers included in radio signals, and performing phase addition processing based on the
difference. A characteristic coefficient regarding a change rate of the phase rotation amount
of each of the subcarriers with respect to a frequency is calculated by performing a linear
10 regression analysis of the relationship between a frequency and the phase rotation amount,
and a distance is estimated based on the characteristic coefficient.

(fig. 3)