

[ABSTRACT]

10 An imaging device (100) includes: a plurality of transmitters
 (101) which are disposed on both sides of a region and transmit waves
 to the region; a plurality of receivers (102) which are disposed on the
 both sides and receive the waves from the region; and an information
 processing circuit (103) which derives an imaging function
15 corresponding to a scattering field function related to scattering of
 the wave according to a correspondence between (i) measurement
 data obtained by the plurality of transmitters (101) and the plurality
 of receivers (102) and (ii) a composition of a plurality of functions
 related to multiple first-order scattering forming multiple scattering,
20 and visualizes a three-dimensional structure of a scatterer included
 in an object in the region, using the imaging function.

Figure 9