

IMAGING DEVICE AND IMAGING METHOD

[ABSTRACT]

An imaging device (100) includes: a plurality of transmitters
5 (101) that each transmit a wave to a measurement area; a plurality
of receivers (102) that each receive a scattered wave of the wave
from the measurement area; and an information processing circuit
(103) that images an object in the measurement area using
measurement data of the scattered wave. The information
10 processing circuit (103): derives a scattering field function using the
measurement data and a velocity vector of the object; derives an
imaging function that is defined using an amount output from the
scattering field function in response to inputting an imaging target
position into the scattering field function; and images the object in
15 the measurement area using the imaging function. The information
processing circuit (103) reflects in the scattering field function that
the wavenumber of the scattered wave changes due to the Doppler
effect corresponding to the velocity vector.

20 Figure 6