

IMAGING DEVICE AND IMAGING METHOD

[ABSTRACT]

The present disclosure provides an imaging device capable of
5 imaging a distant object in a wide measurement area with high
accuracy. An imaging device (100) includes: transmitters (101)
that each transmit a wave from a transmission area to a
measurement area; receivers (102) that each receive, in a reception
area, a scattered wave from the measurement area; and an
10 information processing circuit (103) that images an object in the
measurement area. Each of the transmission area and the reception
area has a finite size. The information processing circuit (103):
derives, using the measurement data, a scattering field function in
which the finite size is reflected; derives an imaging function defined
15 based on an amount output from the scattering field function in
response to inputting the imaging target position into the scattering
field function as the transmission position and the reception position;
and images the object using the imaging function.

20 Figure 15