

IMAGING DEVICE AND IMAGING METHOD

[ABSTRACT]

5 An imaging device (100) includes a transmitter row (101) including a plurality of transmitters (111) that are aligned in a straight line and transmit a wave to a region, a receiver row (102) including a plurality of receivers (112) and provided at an interval from the transmitter row (101), the receivers (112) being aligned in a
10 different straight line parallel to the straight line along which the transmitters (111) are aligned, and receiving the wave from the region, and an information processing circuit (103) that derives an imaging function in accordance with measurement data and a distance and using the imaging function to image the structure of a scatterer
15 included in an object that is present in the region, the imaging function corresponding to a scattering field function relating to scattering of the wave, the measurement data being obtained by all or some combinations of the transmitters (111) and the receivers (112), the distance being a distance between the straight line along
20 which the transmitters (111) are aligned and the different straight line along which the receivers (112) are aligned.

Figure 14