

ABSTRACT

MILLIMETER WAVE IMAGING APPARATUS

Disclosed is a millimeter wave imaging apparatus provided with a lens antenna and an image data generating unit. The lens antenna transmits millimeter waveband thermal noise radiated from a subject and forms a subject image generated based on the thermal noise at a predetermined image forming position. The image data generating unit is provided with a receiving antenna for receiving thermal noise of each portion of the subject image formed by the lens antenna and generates image data of the subject based on a level of the thermal noise received by the receiving antenna. In the millimeter wave imaging apparatus, a blocking plate that blocks passage of the thermal noise at least in an image capturable range in which the subject image can be captured by the antenna elements as viewed from the lens antenna is provided on a side opposite to the lens antenna across a subject location region in which the subject is located upon imaging the subject.

Fig. 1