

Development of Longwave Infrared camera onboard PLANET-C

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The Longwave Infrared Imager (LIR) onboard PLANET-C measures thermal radiation of 8-12 μm emitted from the cloud-top of the Venusian atmosphere. LIR uses an uncooled microbolometer array which needs no cryogenic apparatus, and it contributes to cost reduction and weight saving. A commercial uncooled microbolometer camera was modified to LIR. Images for the Noise Equivalent Temperature Difference measurement has been acquired by LIR prototype in a vacuum environment. The result is reported in the present study.