

Application to Earth observation satellite of Uncooled micro bolometer camera

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The 50 kg class satellite that detect a radiance of forest fire of 10 um band by a micro bolometer camera at an early stage for contributing to digestive activities is developed in the UNIFORM (UNiversity International FORMation Mission). It realizes low cost, quick fabrication, and on-demand operation, and the constellation operation of 3 satellites are planned in the mission. The heritage of Akatsuki Venus climate orbiter has been applied to the developing of the micro bolometer camera in the mission, and this application to Mars, asteroid, and lunar missions are also expected. Application to Earth observation satellites and the future view of Uncooled micro bolometer camera are shown in the presentation.