

U003-05

Room:304

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## 1 micro-m camera IR1 on board AKATSUKI: Current status and future view

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Venus crescent taken 2 days after the 1st fly-by  
at 600 thousand km away

The results of the imaging tests carried out during the cruising phase between the Earth and the Venus and after the fly-by by the IR1 camera on AKATSUKI are described. The troubles and/or problems found by those tests and the views for future operations are also discussed.

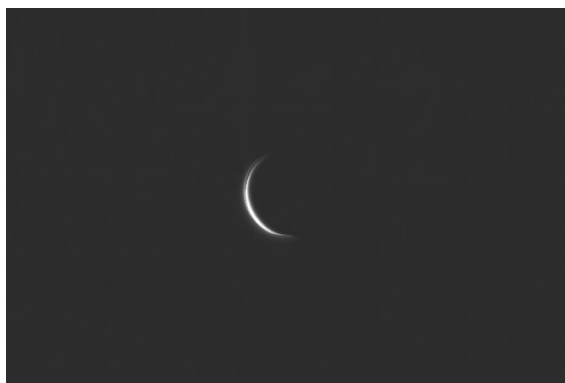
The imaging tests taken are the followings.

- (1) Earth imaging 10 hours after the launch on 21 May to check the normal performance of the camera
- (2) Star imaging to check the optical alignment between AKATSUKI and the IR1 camera. The focus and the absolute sensitivity are also checked
- (3) Venus imaging 2 days after the 1st fly-by at 600 thousand km away to check the normal operation of the camera for the right target.

The troubles and/or problems found so far are the followings.

- (1) Black and white noise
- (2) Missing line (?)
- (3) Blooming-like structure
- (4) Sensitivity decrease (?)
- (5) Attitude stability

Although there are some unsolved problems noted above, the camera seems to be working normally as seen in the image taken after the fly-by.



Keywords: Venus, AKATSUKI, infrared, imaging