ABSTRACT

Remote sensing is technique or science which allows observer to observe an object from a distance. Aerial photography is a form of remote sensing, where the result of observation is image. Remote sensing can be very useful, for example when the object to be observed difficult to reach, such as disaster areas. The form of media that used is rocket payload and the media for taking the pictures is CMUCam3. There is two transmission method that used on the design. First, image transmission without compression and second is image transmission with JPEG compression. Moreover, analysis conducted to the image result from CMUCam3 when taking pictures outdoor, especially effect of sunlight to image. The result of experiment is JPEG image transmissionis faster than image transmission without compression.

Keywords : remote sensing, CMUCam3, aerial photograph, rocket payload, JPEG Format