

Abstract

IP camera have been widely used for monitoring area. Usually monitoring is done to monitor certain areas that require a high level of security, so *IP camera* can record all the events that occur in the area and recording can be used to track the events in case of unlawful in the supervised area. At the time of image captured by *IP camera*, sometimes there is interference caused by moving object. So the result of image is damaged called blur.

Then needed *Raspberry Pi* to do image processing that is deblurring. To save the image data also required large storage device to store all image data that has been captured by *IP camera*. By using cloud storage that has large storage space, all image data will be stored in cloud storage and make it easier to check and retrieve image data. In this Final Project design and implement embedded *IP camera* that can perform image processing with *cloud storage* as image data storage space. Image will be done image processing deblurring using *Richardson-Lucy* method so that can fix the blur image to improve image quality.

Keywords: *IP camera, blur, deblurring, cloud storage.*