

Abstract

Monitoring the area is one of the security functions are carried out actively and visually by the user. This monitoring is usually done to keep an eye on the place - a particular place because these places have high level privilege, so that not all people are free and out of the area. In addition, the recording function on the incidence of such areas may also be a function which is important for tracking the events can be found when needed. Typically, to perform the necessary data storage tape storage server that financing is not cheap. With the embedded computer technology, integration between camera with embedded computer can be performed. This gave rise to IP camera embedded technology, which, by this technology, an image captured by the camera can be enhanced. As repair the image to reduce noise or increase the brightness level of the image. In this final project will be designed and implemented prototype embedded IP surveillance camera, with the ability to improve the image quality (denoising and gamma correction), recording mechanism instances where the record data can be stored on cloud storage, as well as device discovery features.

Keywords: *Surveillance embedded IP camera, denoising, gamma correction, cloud storage.*