ABSTRACT

Currently, the trend of Photography has been moved in to the digital era. The devices on Photography have been integrated with other devices on Tablets and Smartphones. As the time being, the beneficial camera of Smartphone is influencing the photography era. One of the Smartphone technologies is called Android Operating system. The image captured by Smartphone Camera's is not better than the image captured by DSLR. The censor of Smartphone camera's has a weakness in capturing light with high different range, so the image often becomes overexposure and underexposure, thus it makes low detail.

Based on this case, then the researcher has an idea to design an application in filtering the image trough High Dynamic Range (HDR) on Jepret application based on Android. The effect of High Dynamic Range's will make the image captured more detail, because it will normalize the part of image that overexposure and underexposure. The effect of High Dynamic Range can be obtained by setting the brightness and stretching the contrast. The device is used was Smartphone from Android based.

From the test result show that high key image will produce image with HDR effects better than low key image. High key image has less computing time than the low key image. Because high key image has more detail than low key image. The larger image size will make longer computation time. Because of the number of pixels that processed will be very much. Jepret application can perform all functions and features as expected. Jepret applications also help users take the image by HDR effects

Keywords: smartphone, android, image filtering, high dynamic range (HDR), brightness, contrast.