**ABSTRACT** 

Along with improvement in technology and information that is evolve very

rapidly. Also technology developments in Android-based smartphones nowadays

more advanced and attracted many people. Android is a smartphone operating

system that is currently capable of facilitating various activities. Included are areas

of photography because many smartphones are equipped with high-megapixel

camera and image editing applications to give effect for unique color. One of the

effects is Cross Processing (Xpro). Xpro is a conventional technique for developing

analog film deliberately swapping of chemicals that should be used for negative film

with chemicals to positive slide film and vice versa [8]. So that will be generated to

shift the colors that are not natural and increased contrast and saturation [2].

With the aim of combining the unique color obtained Xpro techniques with

the flexibility and speed of computer graphics, so we made a cross process image

editing effects in photography applications used for Android-based smartphones.

Cross Process filter is one filter that is extremely attractive in producing color. To

obtain the expected effect of cross process parameter settings-parameter performed

on the filter.

From the test results of this application can run all the functions and features

as expected. To produce the cross filter process quickly less than 5 seconds, the user

needs to use the device with a minimum of 1.2GHz processor and 1GB of RAM. The

resulting color of the cross process filter tends to resemble the results of developing

film with cross processing techniques (Xpro).

**Keyword:** mobile application, image filter, cross process

iii