

ABSTRACT

Storage availability of drugs is identical to existing data in a pharmacy. It was found that the data collection in the drug store in the pharmacy is still manual. At the pharmacy required a system that can make it easier for pharmacy employees to know the availability of drugs.

This final project deploys a new goods availability identification system in a warehouse based on image processing that uses MATLAB application for identifying an image of shelves that will be marked by green and red. Red means unavailable, and green means available. Therefore, it differentiates the image reading process from MATLAB by using color detection morphology. Then, the data will be displayed in a real-time basis. This uses GUI (Graphical User Interface) MATLAB to know the availability from the image processing.

According to the test result, the functionality rate is 100%. In testing the effect of light intensity to get the result that the system can optimally work on the light conditions range 60 lux to 188 lux, and laptop specifications that is on the memory can affect the system in operation. In the test distance obtained system results can operate at an optimal distance of 1.25 meters. Then on the MOS (Mean Opinion Score) has an average value of 4.84

Keyword: *Image Processing, Realtime, Medicine Box*