

ABSTRACT

IMPLEMENTATION OF AUTOMATIC MONEY STORAGE

There have been many traditional storing money in Indonesia, in its use there are sometimes difficulties when users want to know the amount of money that has been saved, causing users have to damage the deposit area, besides traditional storage money is less attractive, less effective storage consistency. There needs to be a new innovation in storing money that is more environmentally friendly, without having to damage the deposit area, we can find out how much money is in the depository.

In this study aims to create a system that can detect the nominal type of money and the authenticity of the money that goes into the box where the money is stored. The nominal detection and authenticity of this money includes reading the frequency value RGB (Red, Green, Blue). The sensor that used to measure the money parameter is the TCS-3200 color sensor. The sensor can detect the nominal amount of money and determine the authenticity of the money put in the storage which will then be displayed on the LCD.

Making automatic money storage using the TCS-3200 color sensor produces a frequency value for each nominal denomination of money. A Rp. 100,000 denomination has a frequency value of $R = 173$ and $B = 197$, a Rp.50,000 fraction has a frequency value $R = 243$ and $B = 163$, a fraction of Rp.20,000 has a frequency value of $R = 253$ and $B = 240$, and a fraction of Rp. 10,000 has a frequency value of $R = 243$ and $B = 204$ in units of KHz. In this study the frequency value of the color G was not observed.

Keywords: Automatic Money Storage, Monitoring, Sensor TCS3200