

## **ABSTRACT**

*Curix ID Camera Agfa Gevaert is one type of medical equipment in the field of radiology that is used to print patient ID on film x - ray after x-ray process. Camera ID can be used in a bright room, so the user does not need to use a dark room again to print the data of patients after film x - ray exposure.*

*Camera ID that is currently in the Central Region General Hospital Surakarta dr.Moewardi using a system type (keyboard) for writing patient data, while users in the General Hospital Center for dr.Moewardi Surakarta prefer using the manual system of writing, but the equipment was damaged .*

*In view of the user needs the Central Region General Hospital in conducting tugasnya dr.Moewardi Surakarta, therefore ID Camera with manual system was necessary in the on again.*

*The workings of this tool is very dependent on the microcontroller AT89S51, DC motors and lights. Where the microcontroller will control the movement of DC motor to open the tape and lights that will perform irradiation on x-ray film.*

*Based on the results of testing tools Camera ID, the DC motor contained on these tools can work in accordance with a system that is expected, which can open and close the cassette film x - ray which is the result of the test motor rotation is performed, from 20 times of testing, the success rate higher than the value of the error and halogen lamps used in these tools can do the radiation, which has done printing the results on the Central Region General Hospital dr.Moewardi Surakarta, so the ID Camera's Regional General Hospital Surakarta dr.Moewardi Center can used again.*

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**Keywords:** *ID Camera, microcontroller, motor and radiation.*