

## **ABSTRACT**

*In this modern era, the camera is a tool that is very commonly used both as a hobby and as a tool for professional photographers, including DSLR and Mirrorless cameras being options that can support their shooting needs with satisfying results. The price of cameras and lenses is still quite expensive depending on the type and quality of each camera or lens. But most people who have DLSR and Mirrorless cameras do not know how to care for, store, and provide treatment so that the quality of the camera remains the same and does not decrease.*

*There needs to be a camera storage area that is able to monitor the storage area so that the camera is not damaged and the lens is not moldy, by using a microcontroller this cabinet can monitor with added features in the form of sensors that can read the situation in the cabinet. In this final project, a tool and a system that is capable of monitoring and controlling temperature and humidity are offered to keep an ideal environment which is temperature around 24°C to 26°C, and humidity around 35% to 50% to save a camera and lens so does not get moldy easily, and a fingerprint feature is added to keep camera remains safe when stored. The data is taken in real time from the microcontroller device which is then displayed on the website using Internet of Things technology. The website can be accessed anywhere as long as the user is connected to the internet.*

*The development of Dry Cabinet made in this final project will be a solution to maintain the quality of a DSLR camera or lens in good condition and it will keep the performance of a DSLR camera or lens would not decrease.*

*Keywords: DSLR Camera, Lens, Microcontroller, Monitoring, Controlling, Dry Cabinet, Internet of Things.*