

## **ABSTRACT**

In general, controlling and security system is applied in places that may need monitoring, such as supermarkets, banks, jewelry shops, and offices. But nowadays, almost all of the places need this systems, including home. As the implications of advances in technology and the need for security and supervision, then introduced Closed Circuit Television (CCTV). Technically, CCTV can be defined as the use of video camera systems for supervision, and the signal sent to a particular place, where have the monitor.

Ideally, the supervision of a house is done directly by the owner without being restricted by distance and time. This can be done using the CCTV system which can be accessed at any time and any where, with internet technology. By using existing infrastructure that is the phone cable that has spread throughout Indonesia by PT Telkom, the user can use internet technology through a phone cable, the ADSL technology (Asymmetric Digital Subscriber Line). Therefore, CCTV cameras can be placed at homes, offices, shops that have this network device.

Based on the calculation result, it can be easily recognized that the most suitable configuration for this final project is by using 56 Kbps camera bitrate, 10 fps framerate with maximum number of camera are 3 and can be accessed by client with ADSL network which has wide bandwidth.

This final project can provide visualisation about the CCTV system via the Internet and can be used as an alternative control and security system that can be applied in the community.

Keyword : CCTV, ADSL, TCP/IP, MPEG-4, QoS