ABSTRACT

This The use of IP Cameras (IP Cam) has become increasingly important in various applications, such as security, monitoring, and video analysis, due to their ability to produce high-quality real-time video. However, the large size of video data presents a significant challenge, particularly in terms of storage, which can slow down processes and increase storage capacity requirements. In the context of real-time applications, this issue becomes even more critical, necessitating effective video compression techniques. Video compression aims to reduce file size without compromising visual quality, thereby supporting storage efficiency. This study aims to implement effective video compression techniques for IP Cam usage, including various video resolutions. The expected results of the study include producing high-quality videos with minimal memory usage, improving resource efficiency, and supporting real-time applications. Additionally, this research is expected to contribute to the development of improved video compression technology and its application in direct video processing scenarios.

Keywords: IP Cam, Compression, Real-Time