INSTABRIGHT e-GAZETTE
ISSN: 2704-3010
Volume VI, Issue I
August 2024
Available online at https://www.instabrightgazette.com

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WEB-BASED REMOTE CONTROLLED SURVEILLANCE CAMERA

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ABSTRACT

This research initiated the development of a remote surveillance system that can be controlled using the Transmission Control Protocol/Internet Protocol (TCP/IP) suite. The system captured live video and audio signals and converted them to digital media. These digital data were delivered as streams to the client.

The system was based on the client-server architecture. It used the Windows components, which included the web server, media server, media player, and media encoder. The camera to be controlled will be interfaced to the server PC via video and audio capture device.

The graphical user interface was loaded on the client side by accessing the server URL address through an internet browser. The captured media will be delivered to the client through the media player embedded in the web page. Control of the camera will be one user at a time, but viewing of the media will be multi-client.

Results showed that the media server was able to pull streams from encoder software and deliver live video and audio signals with a negligible delay. Control of the camera from the client side was successful. The overall performance of the system was good, and it displayed video and audio with high quality.

Keywords: Web-based, Remote Surveillance System, TCP/IP, Client-server, Windows

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