**A Real-time Embedded Video Monitoring System**

**ABSTRACT**

Based on ARM11 architecture and embedded Linux Debian operating system, this paper successfully implements a real-time digital video monitoring system. Test results show that displayed videos are fluent with low packet loss rate, and the system supports online broadcast for multiple clients. Based on the ARM - Linux embedded platform, the real- time video monitoring system fulfills the following functions: to collect video with USB Camera to encode video based on ARM - Linux platform; to transmit video through LAN.

**Existing System:**

In the existing System, they a have used a CMOS camera whose functionality is limited and has less accuracy and speed compared to the USB cameras as well a VLC client was used in order to show the video which is a major drawback.

**Proposed System:**

Proposed System includes the Live Video streaming of USB cameras over the Intranet Network with login authentication, such that only the authorized people can view the streaming over the network in a Web page. Here we don not require any User interface to view the video as the it will played directly on the browser page only.

**BLOCK DIAGRAM**

**Hardware:**

ARM 11(Raspberry pi), USB camera, Ethernet Router

**Software:**

Raspbian OS, Video streaming algorithm

**Applications:**

Security, live video monitoring

**Advantages:**

* Low Cost implementation
* Accessible from any Place
* Can be extended to the Internet