

ABSTRACT

Television is one of the audio-video communications media are quite popular and much-loved public / audience. In conventional television broadcast distributed through radio waves broadcast. Meanwhile, in another form of broadcasting through a coaxial cable that became known as the Cable TV or CATV where the general quality of the resulting video is better than analog radio television system.

In this final project design and implementation of cable TV networks in the campus of the University of Telkom. There are three modes that are implemented, namely live streaming, national TV relay, and the display contents of the Campus . The scope of the design and implementation include: the creation of live streaming system via WiFi, sever the manufacture of video content around the information / news campuses, and manufacturing relay system on national television. As for the placement of servers, relays, studio live streams (as a head-end device) centered in Building O (Building Ararkula). Besides the manufacture of elements / components of the head-end, in this implementation is also done design and realization / installation of coaxial cable head-end distributed to terminals television receiver

From the testing / measuring the resulting video quality and transmission parameters obtained CNR amounted to 66.24 dB and Xmod is 68 dB. Based on questionnaires, from 30 respondents said the results of this final project 54.8% stated very clearly and 35.5% expressed good Responded

Keywords : *coaxial, television collage, catv ,information*