

## **217. IMPLEMENTATION OF AN INTEGRATED CIRCUITRY TO ACCESS TELE-COMMUNICATION SYSTEMS USING ELECTRO-OCULOGRAPHIC TECHNIQUE**

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This paper presents an idea to control/access the telecommunication devices such as computers, televisions etc., with the help of human eyes. In this paper, a working of the product has been described as to how it helps the special people share and gain knowledge on this world. A number of traditional techniques such as Head and Eye Movement Tracking Systems etc. exist for device control, making use of image processing in which light is the primary source. Electro-oculography (EOG) is a new technology to sense eye signals with which any related devices can be controlled. The signals captured using sensors, are first amplified, then noise is removed and then digitized, before being transferred to PC or related devices to control it. The signals are transmitted using ZIGBEE transceivers which will be attached to our product and to all receiving devices. Any device can be selected and controlled at any time. The user can easily switch between devices using the switch. The switch will be provided based on user's convenience as voice activated or physical switch.

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