

SMART AND EASY CONTROL CONSOLE

To be independent, and enjoy a sense of freedom is the ultimate expression of confidence. While we fully abled human beings use and misuse this gift of independence, we are rarely bothered about the 'specially abled' people who are not able to even express their wishes. Patients affected by hemiplegia (stroke), paraplegia, monoplegia etc. are disabled in one side of the body or in one or both limbs. Conventional hospital switches and electrical equipments are not designed to cater the needs of such patients who are bed ridden and cannot express more than a hand movement.

Our project aims at developing a smart and easy control console that would be able to control the switching of lights, fans, fan speed regulation and emergency nurse station calling to tend to the needs of disabled patients, just by a hand wave.

The heart of the project is the PIR sensor which measures the IR radiations from an animate object in motion and converts it to electrical signal. Each hand wave corresponds to a microcontroller. The system incorporates a transmitter receiver unit to provide signals for the control of relay switches and a LCD panel for the display of each step of operation.

On the whole this system combines of features that guarantee overall comfort and safety to the patient, with the added advantage of energy conservation.