Abstract

In this paper, the design and fabrication of the smart sense technology is presented. The tracking software (ccv), communication protocol and multitouch tool kit is used for tracking the gestures. Later a touch screen is designed using acrylic glass with polycarbonate sheet surrounding IR-LED’s for effective sensing. Frustrated total internal reflection (FTIR) is the multitouch sensing technique used for this touch screen. Hitachi ED-220nm ultra short throw projector is used as a source. Play station 3 camera is used for high frame rate and it will let in only 880nm range of light.
- Han, Jefferson Y. "Low Cost Multi-touch sensing through Frustrated Total Internal Reflection".
- Song-Gook Kim: Multitouch interaction for Table-Top Display Multi-touch.
- R Kneebone 2002: Total internal reflection.
- A Nawrat - 2013: Object Detection Using IR-Camera.
- Forney M. Hoke: Test and evaluation of IR detectors.

**Index Terms**

Computer Science

Communications

**Keywords**

Ftir (frustrated Total Internal Reflection)  Ccv (community Core Vision).