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**Touchless touch screen
technology**

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Touchless Touch Screen Technology

Introduction

Before the Touchless Screen there was Touch screen technology which initially created a great furor. The Touch screen enables the user to interact directly with what is displayed, rather than using any other intermediate device.

But it has some demerits like screen may get damaged. Also the frequent touching to a Touch screen display with a pointing device such as a finger or stylus can result in gradual de-sensitization of Touch screen to input & can ultimately lead to failure of the Touch screen. To avoid this problem user interfaces is being developed for Touch less control of electrically operated equipment. Elliptic Labs innovative technology, lets us to control our gadgets like computers, Mp3 players or mobile phones without touching them. A simple user interface for Touchless Control of electrically operated equipment and also At Fujitsu Laboratories, with the aim of achieving an NUI (Natural user interface), there is developed touchless user interfaces that make it possible to monitor users' behavior through intelligent sensing technologies, such as gesture recognition, and eye tracking, then understand users' intent to enable them to operate a device in a natural way. It is difficult to achieve this by using individual sensing technologies. Both gesture recognition and eye tracking technologies are combined in the developed interface, which gives the users the feeling that they are interacting more naturally and effectively with devices than they would if only individual sensing technologies were utilized.



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Several researches (2) (3) (4) (5) (6) put 4 key Application of touch less touch screen technologies Touchless monitor, Touchless SDK (Software development kit), Touchless UI (touchless user interface), and Touch Wall and there're several technologies that implement the technology. This Article explores about the touch less touchscreen technology depend on results and findings found on the six articles.

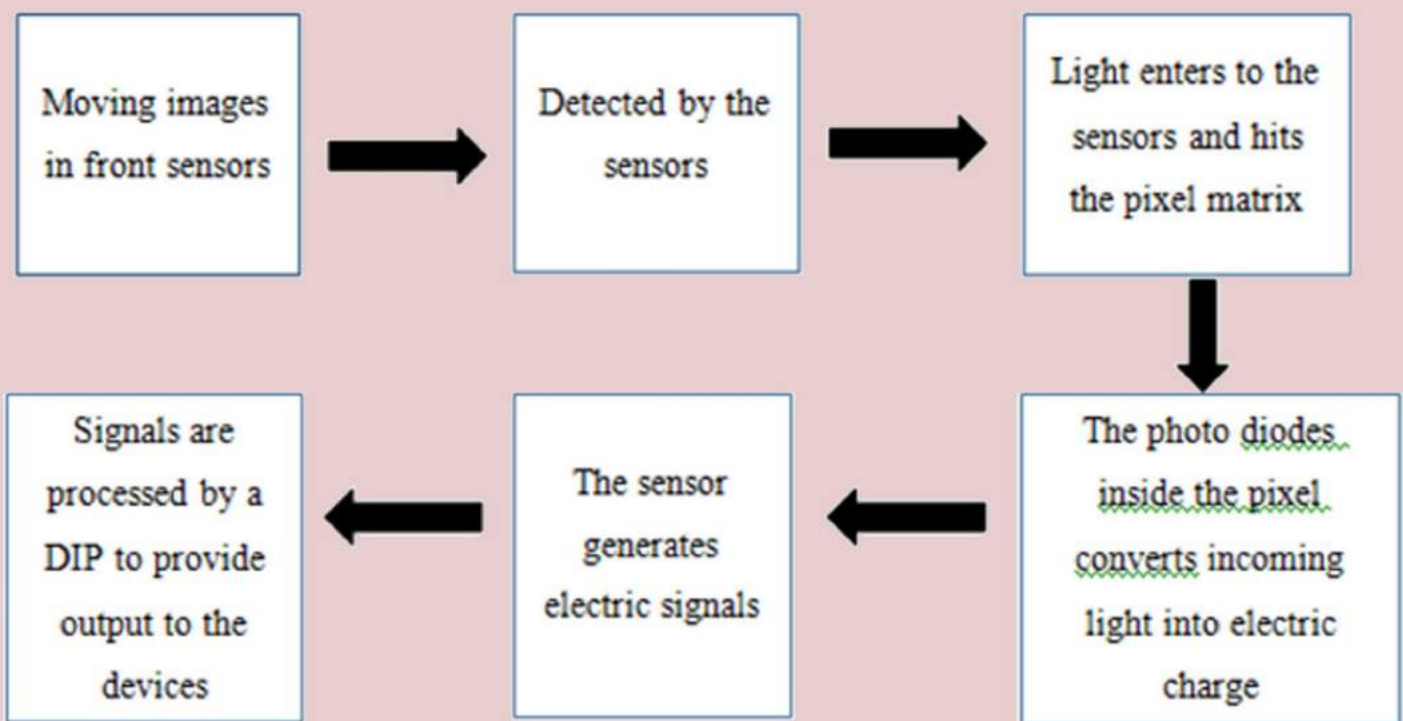


Figure 1: work flow (3) (4)

- According to (2) NINE MINORITY REPORT INSPIRED TOUCH LESS TECHNOLOGY Implemented touchless touch screen technologies:



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- a) Tobii Rex:** Tobii Rex is an eye-tracking device from Sweden it is a new technology, which is used to sense the user's eye which works with any computer running on Windows 8. The device has a pair of infrared sensors built in that will track the user's eyes.
- b) Elliptic Labs:** Elliptic Labs allows us to operate our computer without touching it with the Windows 8 Gesture Suite.
- c) Air writing:** Air writing is a technology that allows us to write text messages or compose emails by writing in the air.
- d) Eyesight:** Eyesight is a Gesture technology which allows us to navigate through our devices by just pointing at it.
- e) Mauz:** Mauz is a third party device that turns our iPhone into a track pad or mouse.
- f) Point Grab:** Point Grab is something similar to eyesight, which enables users to navigate on their computer just by pointing at it.
- g) Leap Motion:** Leap Motion is a motion sensor device that recognizes the user's fingers with its infrared LEDs and cameras.
- h) Myoelectric Armband:** Myoelectric armband or MYO armband is a gadget that allows us to control our other Bluetooth enabled devices using our finger or hands.
- i) Microsoft Kinect:** It detects and recognizes a user's body movement and reproduces it within the video game that is being played.



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Figure 2: Gesture recognition technology and eye tracking

Conclusion

Today's thoughts are again around user interface. Efforts are being put to better the technology day-in and day-out. The Touchless touch screen user interface can be used effectively in computers, cell phones, webcams and laptops. A multimodal interface are better to operate devices in more natural way than technologies that use individual sensing technologies. The researchers' future work indicates that 'The future will also be touch less'. As the technology has several advantages and can be applicable in many areas technology companies are being developing their devices in touchless format. It seems to end up with the touch screen technology.

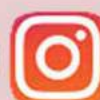


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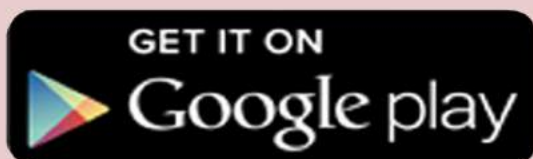


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