









Figure 12: Augmented reality in iPhone



Figure 13: The future of Social Networking

**B. Gesture Recognition**

”It’s a subject in computer science with the main objective of interpreting human gesture via mathematical algorithm”. Gesture detection can be well thought-out as the first technological innovation that understands the motions of humans and therefore it is somewhat similar to sixth sense. Gesture recognition is a computer interaction through the drawing symbols with a pointing device cursor which throws the keyboard and mouse into the trash. The main difference is that gesture recognition is being sold in various types in today’s market which are mainly entertainment based. Sixth sense differs because it accesses the people in every single moment of the life.



Figure 14: Gesture Gaming

**11. Sixth Sense-Impact on Business**

If the technology enters the market with the promised quotes authorities are pretty sure that it will be a corner stone in 21st century. Cheaper than iPhone is because the component of system is very cheap as easy to find. And also pranav had promised that he will make device that will allow user to buy their own component so that user can make its own sixth sense and customise the cost. Rather than having only a commercial and profit purpose the device also has a very different vision in which it wants to help disable people add one more sense to themselves and make them live better in the community. Considering the prototypes to be the most expensive it is believed that the price will go much lower once it gets mass production.

**12. Applications**

Map function lets the user navigate a map displayed on a nearby surface using hand gestures. Zoom in; zoom out by user hand gesture The drawing applications let the user draw on any surface by tracking the finger tip movements. of the users index finger and lots more application like making a call, check schedules , stream video etc.



Figure 15: Sixth Sense newspaper



Figure 16: Drawing application of Sixth Sense



Figure 17: zoom out, zoom in

**13. Advantages**

- It is an open source.
- It is portable technology.
- It doesn’t make human to understand computer knowledge but it causes machines and computer to adapt to human needs.
- It is cheap to built also connect real world and information.
- Can map the idea anywhere on physical objects.
- Can be used by anyone without even having any basic knowledge about keyboard and mouse.
- Open source code for everyone.

- Mind map idea anywhere user wants.
- Interface does not confine in mobile or PC display.
- It is cost effective only 300\$.

#### 14. New Concept Sixth Sense Glass

There are some loopholes in present sixth sense design and that is there is no privacy when you are browsing your data. In this concept we use laser filter glass as an interface between digital and real world. This glass has a gesture recognition infrared camera, infrared 3D laser projector and 2 lasers fitted at both ends of the glass and also as a small display and normal projector at center. Concept of privacy is maintained. Display is made up of optical glass and inside have prism layer and a mini projector which will directly project on optical nerve of eye. It seems that your eye is projecting information.

It will also have a microphone which is used for sound recording and browsing of data using voice. This glass will be connected with a computing device with the help of Bluetooth and the glass will work on battery. Using this glass we can click photos, can record video, browse data, check for direction, can send messages verbally, dial a call by just uttering their name, send messages if numbers are saved or else you can simply dial the number in air.

Since we are using an infrared projector, the projected things can be seen only through laser filter glasses which will protect the privacy of the user. Also using a normal projector, this projector will project the information on a surface which can be visible to other people. Using 3D infrared laser, one can interact with 3D objects. Changes can be made; it is just like a 3D workspace. A small display in front of the glass will display photos, messages, etc., and the user can interact with it. The laser will detect the gesture and accordingly pass the signal to computing devices.

There will be also an application in a computing device if the user is in private browsing mode and if s/he wants to show what he is watching to anyone with the help of this application, it can be done. Thus, augmented reality has gone into a different dimension. It can also be used as a night vision device and can be used by militaries. Also, it can help the disabled people. Thus, not only economic but also it can be used for the well-being of humans.

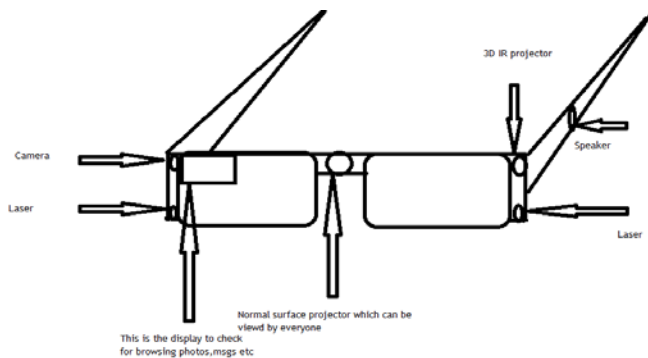


Figure 18: Rough hardware of Sixth Sense glass

#### 15. Future of Sixth Sense

- To get rid of color markers and hand use, easily used by voice recognition.
- Interactive advertisement.
- Sixth sense with holographic visualizes the better world.
- True 3D print media.
- 3D visualization and gesture tracking.
- Camera can act as an eye for blind people as a fifth sense for them.
- Useful for people who can't speak and can make possible to understand by others what he is trying to say with his sign movement's recognition into text.
- It is almost like setting up a digital system into our body and making use of it.
- Sixth sense framework implements several applications that demonstrate usefulness, availability, and flexibility of the system.



Figure 19: Future is here

#### 16. Conclusion

Relate with the information via natural hand gestures and enables you the whole world at your fingertips—literally. Transparency between user boundary for accessing information about everything around us and this is classified under wearable computing. Recognize the object and give information about it and give freedom to access.

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