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Google Glass: The Third Eye

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Abstract:

The emergence of google glass, prototype for transparent Heads-Up Display (HUD) worn over one eye, is significant. It is the first conceptualization of mainstream augmented reality wearable eye display by large company. It takes step further toward ubiquitous computing, which is the idea that the Internet and computers will be accessible anywhere at any time without having to use one's hands. Google Glass displays information in smartphone like format hands-free, can interact with the Internet via natural language voice commands, and uses Google's Android operating system. These glasses will have the combined features of virtual reality and augmented reality. Google Glass user looks down and various Google icons magically appear in front of eye - calendar, Google+, time, temperature, camera, chat, location, and more. Reminders pop up about meetings later evening, and text messages..A Glass prototype weighed 8 pounds.Google glass is human interaction computer,the wearable eye display.[1][2]

Keywords:

Google ,Eye,Glass.

1.Introduction:

1.1 What is Google Eye:

Google glass is as futuristic a gadget , seen in Google today went public with its plans to offer augmented-reality glasses, which it's calling "Project Glass".As currently designed, it have a horizontal frame that rests on a wearer's nose, with a wider strip of computer and a little clear display on the right side. That's the idea behind Google Project Glass, a concept device that puts smartphone into a pair of slim glasses and projects its contents for some futuristic, voice-activated fun. The people who wear the google glass see various Google icons appear in front of eye - calendar,the time, temperature, camera, chat, location, and more. Google Glass test devices with software and cameras, to give quick access to information in a display above the eyes.Google Glass will enable to capture video,let interact with personal contacts and navigate maps,amongst another things.[5][6]

1.2 History of Google Eye :

Google Inc.(GOOG), owner of the world's most popular search engine, will sell eyeglass-embedded computers to consumers by 2014 after incorporating feedback from developers, said Sergey Brin the

company's co-founder.Glass is being developed by Google X Lab, which has worked on other futuristic technologies such as driverless cars. The project was announced on Google+ by Project Glass lead Babak Parviz, an electrical engineer who has also worked on putting displays into contact lenses; Steve Lee, a project manager and "geolocation specialist"; and Sebestian Thrun, who developed Udacity as well as worked on the self-driving car project.[2][9]

2. How Google Eye works:

2.1 Components of Google Eye:

It has a micro phone , camera and a screen.It has a microphone to send and receive voice messages.The Glass headset includes a camera that captures pictures.It has a memory to store data multiple radios for data communication.[3]

2.2 Actual working of Google Eye:

Project Glass, announced last year, will be a set of glasses with a small display attached to the right lens, sitting on the edge of the user's vision. Users control the display through a small touch panel on the right side of the glasses,Google has experimented with voice controls as well.The core of Google Glass is its tiny prism display .The glasses also have an embedded camera, microphone, GPS and, reportedly, use bon induction to give sound. Voice control controls the device like want to capture picture then 'say ok glass take a picture',,sending messages by 'speak message' or get directions.

Most of this functionality is self explanatory; hang out is Google's video conferencing technology and allows to talk to a people over web cam, and stream them and the directions use Google Maps and the inbuilt GPS to find a way.The results are displayed on the prism - essentially putting data into your view like a head up display (HUD). It's potentially incredibly handy.[8][11]

3.APPLICATIONS:

People take a picture everywhere.It shows directions of any subway and any places .Its help to translate the voice .A useful technology for handicapped and disabled people. It help to send messages and see google map.It is strong and light.It act as Hand free computers so there is no need to carry phone.It help to acess internet easily so sending and receving emails or chatting possible everywhere.It runs on android platform.It help to indentify a friend in a crowd.It help to detect and display weather in front of eye.[2][7]

4.CONCLUSION:

Google Glass hopes to be one of the newest and most innovative technologies in recent times.Although Google Glass is still in the development process and far from the production phase,there are already numerous of capabilities and applications that could

be very useful for consumer,such as live video and data streaming.Their super-secret augmented reality project that packs a rich visual interface inside a sleek wrap-around heads-up display unit. The project will be conducting tests with employees in public, but have yet to hint at when it'll hit the shelves.

Users will be able to utilize email,video chat such as Skype, and social networking services such as Twitter and Facebook.The ever-present fear of security thearts,such as theft and malware,must also be taken into consideration.Some precautions have already been taken to thwart thieves;however steps of protection against malware have not yet been discussed by Glass'designers.There are also potential ethical problems,such as privacy issues that may come up with the use of Google Glass.

5. Future scope :

Google Glass is a futuristics gadget.Google Glass actually make life easier and comfortable in future and Google Glass one of the newest and most innovative technology so Google Eye has wide scope in future.

Google Glass is development and working on process so Google Glass may have some more additional features which make more comfortable to human in future.[4]

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