



INTERNATIONAL EXHIBITION & SYMPOSIUM ON PRODUCTIVITY, INNOVATION, KNOWLEDGE & EDUCATION

“Optimizing Innovation in Knowledge, Education and Design”

EXTENDED ABSTRACT



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Assalamualaikum warahmatullahi wabarakatuh,



First and foremost, I would like to express my gratitude to the organizing committee of i-Spike 2023 for their tremendous efforts in bringing this online competition a reality. I must extend my congratulations to the committee for successfully delivering on their promise to make i-Spike 2023 a meaningful event for academics worldwide.

The theme for this event, 'Optimizing Innovation in Knowledge, Education, and Design,' is both timely and highly relevant in today's world, especially at the tertiary level. Innovation plays a central role in our daily lives, offering new solutions for products, processes, and services. By adopting a strategic approach to 'Optimizing Innovation in Knowledge, Education, and Design,' we have the potential to enhance support for learners and educators, while also expanding opportunities for learner engagement, interactivity, and access to education.

I am awed by the magnitude and multitude of participants in this competition. I am also confident that all the innovations presented have provided valuable insights into the significance of innovative and advanced teaching materials in promoting sustainable development for the betterment of teaching and learning. Hopefully, this will mark the beginning of a long series of i-Spike events in the future.

It is also my hope that you find i-Spike 2023 to be an excellent platform for learning, sharing, and collaboration. Once again, I want to thank all the committee members of i-Spike 2023 for their hard work in making this event a reality. I would also like to extend my congratulations to all the winners, and I hope that each of you will successfully achieve your intended goals through your participation in this competition.

Professor Dr. Roshima Haji Said
RECTOR
UiTM KEDAH BRANCH



WELCOME MESSAGE (i-SPIKE 2023 CHAIR)



We are looking forward to welcoming you to the 3rd International Exhibition & Symposium on Productivity, Innovation, Knowledge, and Education 2023 (i-SPIKE 2023). Your presence here is a clear, crystal-clear testimony to the importance you place on the research and innovation arena. The theme of this year's Innovation is "*Optimizing Innovation in Knowledge, Education, & Design*". We believe that the presentations by the distinguished innovators will contribute immensely to a deeper understanding of the current issues in relation to the theme.

i-SPIKE 2023 offers a platform for nurturing the next generation of innovators and fostering cutting-edge innovations at the crossroads of collaboration, creativity, and enthusiasm. We enthusiastically welcome junior and young inventors from schools and universities, as well as local and foreign academicians and industry professionals, to showcase their innovative products and engage in knowledge sharing. All submissions have been rigorously evaluated by expert juries comprising professionals from both industry and academia.

On behalf of the conference organisers, I would like to extend our sincere thanks for your participation, and we hope you enjoy the event. A special note of appreciation goes out to all the committee members of i-SPIKE 2023; your dedication and hard work are greatly appreciated.

Dr. Junaida Ismail

Chair

3rd International Exhibition & Symposium Productivity, Innovation, Knowledge, and Education 2023 (i-SPIKE 2023)

EYE TECH

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ABSTRACT

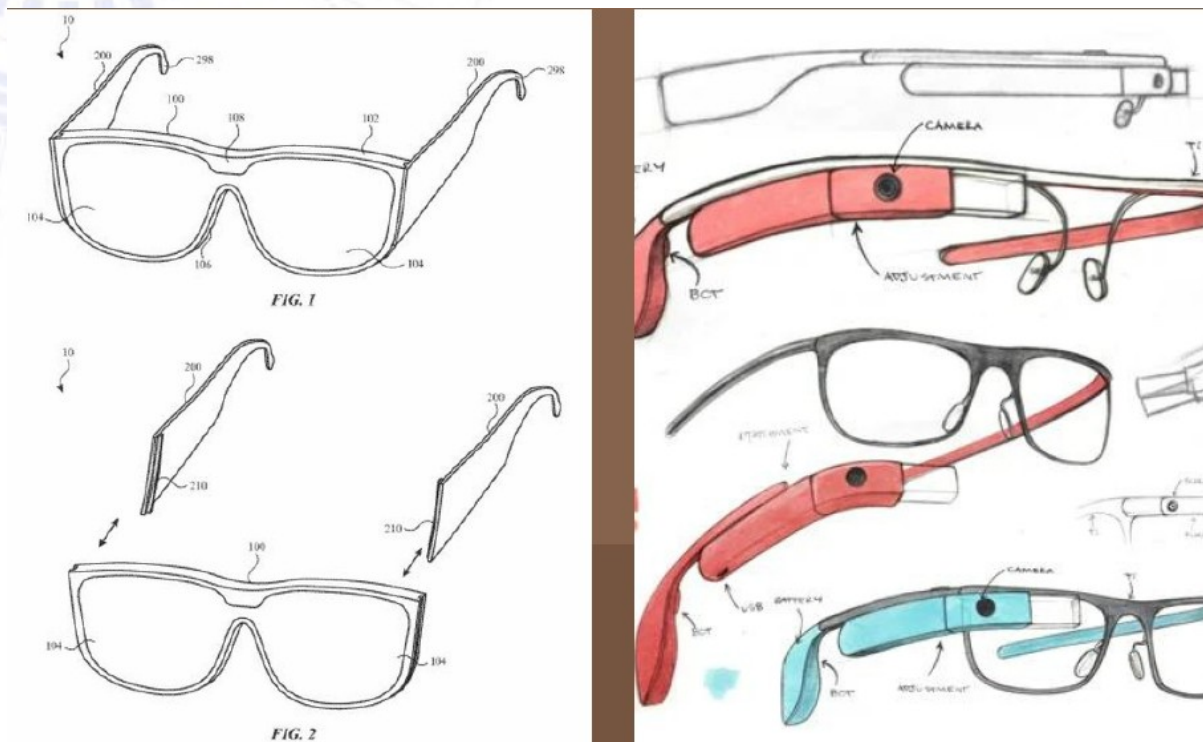
Eye-T are sophisticated and high-tech glasses. Eye-T glasses frames are made of metal and plastic. The lens is made of various types of plastic metal and has a durable mirror. The beautiful and stylish shape of the glasses is suitable for both men and women. These glasses can help our community and target audience to facilitate every task and work they do. Cooperation with a big company like Google helps Eye-T to get more information and solve various problems. The use of a small and light chip to analyze information makes Eye-T does not look like high-tech glasses but look like normal and stylish glasses. Spectacles are the important thing if there are myopic or want to cover their eyes from the sun to care about the eyes. We have innovated Spectacles as our main thing to help society play with the technology so they can get exposure to the new technology.

Keywords: eye, glasses, high-tech.

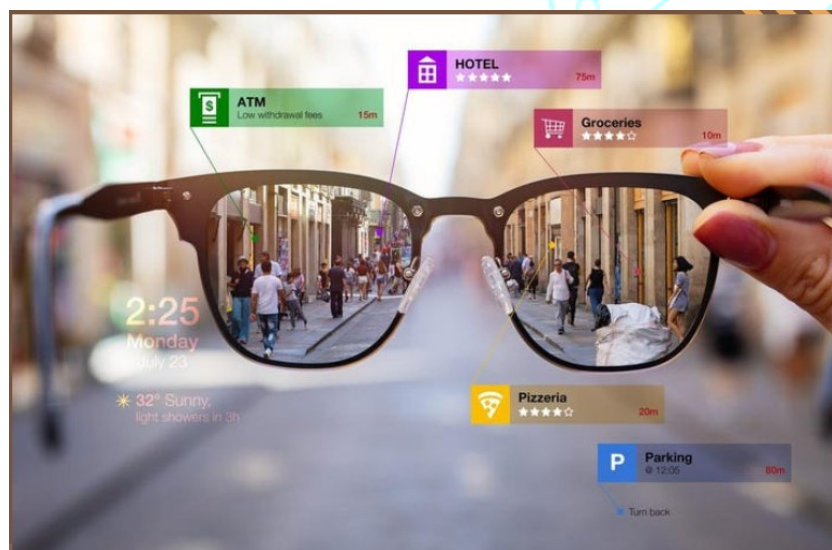
Innovated Device.

Our product name is the Eye-Tech or Eye-T which means to Eye with information and functional to use it in daily life. This is because spectacles are the idea from brain to eye for easy-to-get information without any hard things to do. This thing is to get instant information from the Eye-T.

Design 2D



Design





Functionalities

Eye-Tech combines Augmented Reality technology with a wearable device that allows hands-free access to the internet. By allowing the user to access the internet using voice control, they can view and listen to up-to-date information on the spot without interrupting their work. Eye-Tech also be equipped with augmented reality technology, intended to assist you with your everyday home and business life. Expectedly, different models incorporate different technologies depending on the critical focus of the device.

Providing real-time information about inventory/orders to warehouse workers while still having their hands and feet free. Display real-time assembly instructions to the employees of building and manufacturing companies. Record and document client/customer information and interaction in real-time and access information from previous visits to professionals such as doctors, lawyers, etc.

The Eye-T is also a collaboration with Google due to the popularity of Google among users. Not only that but the search engine Google is very reliable as they are fast and direct in terms of giving information. Through the collaboration, applications such as Google Maps, Google Drive, YouTube, and every other application is presentable and accessible in the Eye-T.

Specification

The specifications of the Eye – T are carefully laid out here:

Materials - Polymer Dispersed
Liquid Crystal & Thermochemical
Glass
Processors - Qualcomm

Snapdragon 8-core chipset
Resolution - 640x480
Refresh Rate- 50 Hz
Weight - 50g with Headstrap
Operating System - Google
(Android)
Charging - Type C
Battery Capacity - 300 mAh x 14
mA (estimated around 20 hrs of
display).

TARGET AUDIENCE

Tech-savvy

Society and technology-savvy users will use technology for almost every daily task whether it is work or home tasks. With Eye-T, this will make every Tech-savvy job more productive and competitive. Eye-T also helps in improving work-life balance. Jobs that require a long and tiring time will be easier and faster with the help of Eye-T. This Eye-T can also increase the productivity and efficiency of its users because technology-savvy people are often people who want perfection in their tasks but will use easy ways and technology to make their jobs difficult. For example, individuals who use technology a lot in their daily lives are Engineering, Architects, Lecturers, and Entrepreneurs.

SWOT ANALYSIS

Strength

- Easy to use.
- Can solve many problems.
- Can detect movement heat.
- Has cloud saving system.

Weaknesses

- Difficult to use if don't have a good access network.

Opportunities

- Improve to did not 100% dependent on Google

Threat

- Potential to be hacked due to use of widely used telecommunication networks

CONCLUSION

Therefore, Eye-T is the relevant innovative device for upcoming years to give convenience to the public so they can easily access all the information through our product.

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