

ASX RELEASE

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ASX: NVU

Nanoveu Achieves Key EyeFyx Lens Development Milestone

Highlights:

- **Thin film EyeFyx optical correcting lens fabricated containing nano scale structures capable of bending light emitted from a digital display.**
- **The light emitted through the thin film screen is suitable for software manipulation to correct vision without the user wearing glasses.**
- **Lens development is progressing in line with project timeline.**
- **Nanoveu is now refining the vision correcting software.**
- **Scientists have successfully migrated Nanoveu's proprietary 3D software solution into the EyeFyx project.**
- **The focus is now on adapting Nanoveu's proprietary 3D software to be suitable for vision correction.**

Nanoveu Limited ("Nanoveu") has fabricated a thin film optical correcting lens containing nano precision structures capable of fashioning light emitted from a digital display. The light transversed through the film can be manipulated via software to correct vision without the user wearing glasses. Fabrication of this lens completes a key milestone in the hardware development of the EyeFyx project.

About EyeFyx:

EyeFyx aims to enable people to read smartphones and tablets without using their reading glasses by using a proprietary thin film to bend light emitted from a digital display which has been manipulated using software to match a person's reading glasses prescription.

Nanoveu has developed a technique to adjust images and text displayed on digital screens in a way that people with farsightedness can clearly view mobile content without the need for reading glasses. The technique uses embedded software in combination with a thin-film lens produced with nanoimprinting lithography (NIL) for screen protectors, that renders clear, in-focus images onto the retina of a person with blurred vision.

Development program:

A working prototype lens was developed in 2018 after the EyeFyx technology achieved proof of concept, demonstrating that nanoimprint technology can be used to produce a thin film which, when applied to a digital screen, enables people with farsightedness (presbyopia) to read or view digital displays without their glasses.



Nanoveu continues to progress critical research and development (R&D) activities en route to commercialising its EyeFyx technology, with a series of lens performance trials that began in mid-August 2019, and has now fabricated its third generation series of lenses.

In partnership with Nanyang Technological University (NTU) in Singapore, testing has now commenced using multiple thin films imprinted with different nanolens structures. The goal of these tests is to fine-tune the parameters of the lens structure and software combination.

The first set of lenses arrived at the lab for testing in mid-August. This started a multi-trial process of refining the nano-optics of the thin film – a procedure that is expected to last several months. The researchers have subsequently fine-tuned the hardware design and complex software algorithms that underpin the technology.

The third batch of lenses was received in October 2019. Initial evaluation of these lenses validates the team's initial proof of concept hypothesis, and that its proprietary algorithms are able to match any high performance lenses. The EyeFyx solution and images have surpassed all previous demonstrations to date.

The team has also been able to migrate its proprietary techniques developed from Nanoveu's 3D technology into this project. This alleviates the requirement to develop specific lenses for each digital display and greatly streamlines the manufacturing process. Provided all lab tests are completed on schedule, Nanoveu anticipates end-user trials may begin as soon as mid-2020.

The low cost and flexibility of the NIL manufacturing process means that Nanoveu could rapidly adapt its product lines as new phone and tablet models come to market.

Market potential:

The potential market demand for such a vision-correcting screen application is significant. Farsightedness is one of the most common causes for blurred vision and becomes even more common with age. Virtually everyone over the age of 50 will suffer from age-related farsightedness (presbyopia) at some point in their lives.

People experiencing farsightedness may see distant objects very well, but have difficulty reading small print or focusing on objects that are up close.

While EyeFyx technology could be incorporated in a range of digital devices, from tablets and e-readers to cash registers and car dashboards, Nanoveu's primary focus is to develop a vision-correcting screen protector for global smartphone and tablet markets.

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Forward Looking Statements: Statements regarding plans with respect to Nanoveu's outlook are forward looking statements. There can be no assurance that Nanoveu's plans will proceed as expected and there can be no assurance that product sales will eventuate as intended.

About Nanoveu:

Backed by pioneering, patented research from Singapore's leading science and technology organisation, Nanoveu's flagship EyeFly3D™ product converts 2D digital displays into 3D without the need for 3D glasses.

EyeFly3D™ has won numerous industry awards and is currently available for Apple iPhones and Google Pixel 3 phones.

Nanoveu is also developing EyeFyx, a vision-correction technology combining software and a screen protector to enable people with age-related farsightedness (presbyopia) to read smartphones and tablets without wearing reading glasses. Presbyopia is one of the most common types of vision loss, affecting nearly one-quarter of the world's population and anyone living beyond middle age.