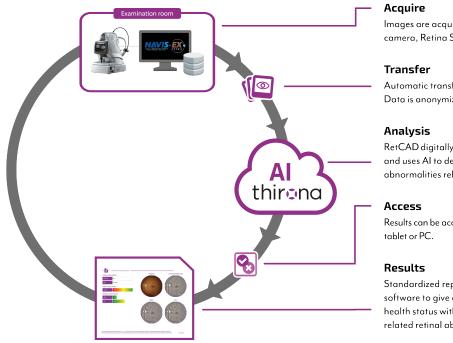# thirona

News Release

Automated fundus screening by Thirona RetCAD™ is now available on NIDEK fundus cameras

- August 31, 2021, Nijmegen, The Netherlands and Gamagori, Japan -

Thirona B.V., a global player in AI-based solutions for medical image analysis, and NIDEK CO., LTD., a global leader in the design, manufacture, and distribution of ophthalmic, optometric, and lens edging equipment, are pleased to announce connectivity between the RetCAD™ artificial intelligence eye disease detection software by Thirona and the NAVIS-EX image filing software by NIDEK. This connectivity allows instant screening of Age-related Macular Degeneration (AMD) and Diabetic Retinopathy (DR) on color fundus images captured by the AFC-330 and Retina Scan Duo from NIDEK.

The combined technologies expand the clinical capabilities of the NIDEK fundus cameras. RetCAD™ uses deep learning to analyse and detect abnormalities in fundus images. The presence of AMD and DR are automatically displayed by RetCAD™, allowing timely referral of patients.

Acquire
Images are acquired with NIDEK fundus camera, Retina Scan Duo / AFC-330.

Transfer
Automatic transfer to the Thirona Cloud. Data is anonymized before transfer.

Analysis
RetCAD digitally enhances the image and uses AI to determine presence of abnormalities related to AMD and DR.

Access
Results can be accessed in the cloud via mobile, tablet or PC.

Results
Standardized reports are generated by the software to give a clear view of the patient's health status with regard to DR and AMD related retinal abnormalities.

"We are confident that our collaboration with NIDEK will contribute to making eye disease screening by first line eye care providers quicker and more accurate." says Eva van Rikxoort, founder and CEO of Thirona. *"With today's digital color fundus cameras, one or multiple images can be acquired from a patient within seconds, analyzed and presented on the operator's computer screen instantly. Using deep-learning technology, RetCAD™ will automatically analyze acquired images and provide the user with scores and heat maps that indicate abnormalities typical for AMD and/or DR, based on identified disease patterns."*

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"With RetCAD™ by Thirona we are continuing our commitment to improving patient-focused decision making processes by expanding the diagnostic capabilities of our fundus cameras and simplifying the process of retinal image analysis." says Motoki Ozawa, President and CEO of NIDEK CO., LTD. *"Combined with our software platform, RetCAD™ will enable instant detection of AMD and DR, enhancing clinical workflow and increasing patient satisfaction at the same time."*

The RetCAD™ AI software can be purchased on a pay-per-use basis with volume-based pricing options. The software is available with the NAVIS-EX platform and can be instantly used. RetCAD™ developed by Thirona is a class IIa CE-certified software product using Artificial Intelligence.

About Thirona

Thirona B.V. (https://thirona.eu/) is a fast-growing med-tech company with headquarters based in Nijmegen, The Netherlands. They are a global player in the field of AI assisted medical image analysis for lung and eye diseases. Their solutions are actively used by customers in more than 70 countries in clinical practice, screening, medical research, and pharmaceutical trials. Thirona has strong ties with several academic institutions worldwide.

RetCAD™ is a class IIa CE 0344-certified software product using Artificial Intelligence that analyses color fundus images for the presence of Age-related Macular Degeneration (AMD) and Diabetic Retinopathy (DR). RetCAD™ is used in hospitals, eye care clinics, screening programs and optical stores for early detection of retinal diseases.

About NIDEK

NIDEK CO., LTD., a global leader in the design, manufacture, and distribution of ophthalmic, optometric, and lens edging equipment. They have been creating industry-leading products due to their technological expertise in combing optical and electronic technologies. Currently, NIDEK CO., LTD. participates in global business activities encompassing the development, production, and sales of devices.

Product/model name: Image Filing Software NAVIS-EX
Optical Coherence Tomography RS-330
Non-Mydriatic Auto Fundus Camera AFC-330

The availability of the products differs from country to country depending on the status of regulatory approval in each country.
For more information, please contact Thirona for all inquiries regarding RetCAD™ and its capability on the NIDEK devices.

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