PRESS RELEASE
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WORLD'S FIRST SPACE EMCCD CONTROLLER BY NÜVÜ CAMĒRAS

MONTREAL, Canada, November 14th, 2017 – Nüvü Camēras is proud to announce the achievement of the qualification of the world's first EMCCD controller designed for extreme low light imaging in a space environment. Nüvü™'s EMCCD controller, CCCP, is the open secret behind Nüvü Camēras' ultimate EMCCD imaging performance, which expands the frontiers of detection when light is scarce and other technologies are blind. Capable of sub-electron read-out noise, CCCPs, the introduced Space version of the original CCD Controller for Counting Photons, supports all existing EMCCD sensors. CCCPs has been tested and found to meet the requirements in a space-like environment (NASA's TRL-5). This innovation is a breakthrough accomplishment in order for the EMCCD technology to be integrated as an enhanced imaging solution in future space instruments.

Nüvü Camēras' technological development roadmap for space opportunities has been laid out with the goal of integrating a future major space mission. CCCPs has been characterized under relevant conditions for optimization to this new environment, all of which will be presented at the 2018 Canadian SmallSat Symposium. Nüvü Camēras' space technology is an enabler technology for the detection, characterization and imaging of exoplanets, search and monitoring of asteroids and space debris, UV imaging, and satellite tracking.

The first flight of Nüvü Camēras' EMCCD space technology is scheduled for September 2018 as the eye of the coronagraph for the High-Contrast Imaging Balloon System project led by Professor Simon Thibault from the University Laval. This project, with multiple worldwide contributors in government, universities and private institutions, is a high tech optical payload mission. It is designed to test the technology that has the potential of finding a life-sustaining exoplanet. The demonstration project will first fly in a Canadian Space Agency stratospheric balloon that will reach a peak altitude of 40 kilometres. A second flight is already expected to launch in 2020 from Australia.

Nüvü Camēras EMCCD technology is renowned internationally for its unrivalled imaging sensitivity, for ground- and now space-based applications. Thanks to the support of the Canadian Space Agency and its partners in the space industry, Nüvü Camēras is on its way to introduce a new Canadian signature technology into space. Tomorrow we will talk about the Canadian eye brought by Nüvü Camēras.

About Nüvü Camēras

Founded and based in Montreal since 2010, Nüvü Camēras is a world leader in the field of ultra-sensitive EMCCD products. The company designs, manufactures and commercializes cameras for markets such as space exploration, defence vision and medical & biomedical diagnostics.

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