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FOR IMMEDIATE RELEASE

PRESS RELEASE

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QDevil enables faster tuning of Qubits

It often takes a long time to tune qubits for optimal fidelity and function. Usually, the tuning is slow, since the needed ultra-stable voltage sources have long time constants.

Danish company QDevil has introduced a new ultra-stable voltage source, the QDAC-II, enabling a 100 times faster tuning than previously possible and making several conventional instruments unnecessary. Along with several outstanding new features, the QDAC-II has overcome the challenge of both being able to do very fast qubit tuning and to remain stable over time once the qubits have been tuned.

“The release of the QDAC-II voltage source comes after years of research and development. It is based on feedback and the needs from customers and existing users of our previous instruments. Our engineering team did an excellent job working on improving the product from its predecessor, making it much more versatile and powerful”, says Jonatan Kutchinsky, CEO and Co-founder of QDevil.

In addition to providing 24 channels of ultra stable DC voltages, the QDAC-II has features making several conventional laboratory instruments redundant, including separate current amplifiers, multimeters, arbitrary waveform generators and pulse / signal generators. Joost van der Heiden, Scientist at QDevil explains: “At the moment we need a lot of different instruments for our experiments. Now we can just use one; the QDAC-II”.

The new product is aimed for control of quantum devices, including gate electrodes and flux bias coils in qubits, thus being a very versatile instrument usable for many other purposes.

Relevant links:

Read more about the features and benefits of the QDAC-II here: <http://qdevil.com/qdac-ii/>

Watch our 4 min video on the technical details of the product:

https://www.youtube.com/watch?v=C-n-H_Szb7M&t=2s

About QDevil

QDevil was founded in 2016 with the mission of developing and producing electronic

instruments and parts specialized for quantum electronics research. Product development is in close collaboration with universities and research institutions, in particular the University of Copenhagen.

QDevil's first product is the 24 channel QFilter, which is used for reducing electron temperatures below 100 mK. It is built on a design developed and patented by Associate Professor Ferdinand Kuemmeth and Professor Charles Marcus while working at Harvard University.

Today QDevil offers a wide range of tools that are carefully engineered with attention to details in collaboration with leading scientists to accelerate quantum science.

QDevil is headquartered in Copenhagen, Denmark, and has the subsidiary QDevil Inc. in the United States.

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