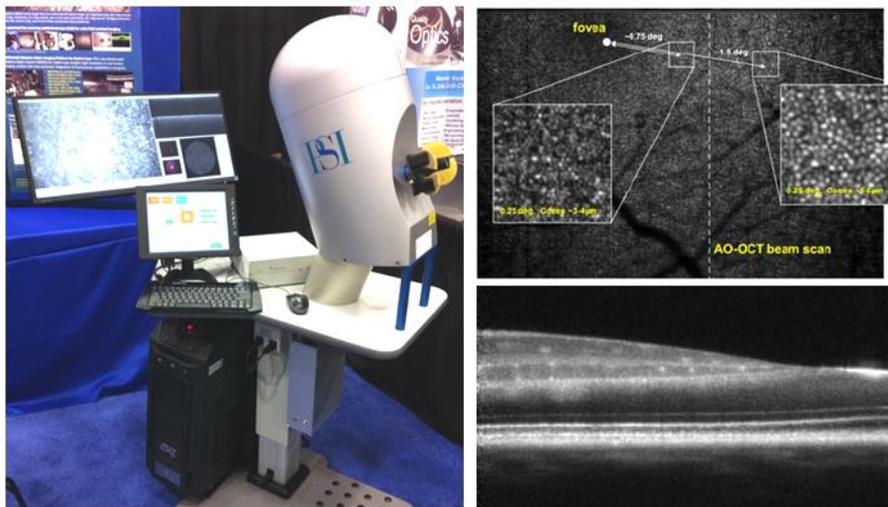


## PSI signs an exclusive supply agreement of ALPAO's deformable mirrors for retinal imagers

Andover (MA, USA) & Grenoble (France) – May 02, 2017 – **Physical Sciences Inc. (PSI), provider of new retinal imager for non-invasive medical diagnostics, will purchase deformable mirror (DM) exclusively from ALPAO, designer and manufacturer of adaptive optics products.**

Adaptive Optics (AO), increasingly used for retina imaging, enables doctors and researchers to observe and analyze the smallest details of the retina, such as rods and cones. Those details can now be seen by correcting imperfection of every eyes thanks to a DM. The DM technology will automatically adjust and change its shape to compensate the optical aberration. The result is unprecedented resolution and revolutionizing retina imaging. It's a great step for medical diagnostics for many pathology including ophthalmology pathology but also cardiovascular and neurologic pathology.

PSI introduces a new compact, multi-modal, high-resolution, AO, and retinal imager. This powerful imaging platform is designed for fast, cone-photoreceptor density mapping and precise imaging of other retinal structures (e.g., Retinal Nerve Fiber Layer, retinal vessels and capillaries, etc.). The instrument combines the resolving power of AO with PSI's line-scanning ophthalmoscope (LSO) technology in a foot-print suitable for clinical operation. It is equipped with an Optical Coherence Tomography (OCT) channel, which provides a complementary cross-sectional retinal image.



*PSI Compact Adaptive Optics Retinal Imager (CAORI)*

“The agreement signed between PSI and ALPAO aims at procuring to PSI deformable mirror for every retinal imager produced. It enables PSI to strengthen its retinal imager using the most leading brand of deformable mirror for ophthalmology and vision science application”, said Nick Iftimia, the leader of the biomedical optics technologies area at PSI.

“ALPAO deformable mirrors allows to recover an excellent image quality thanks to its large stroke and excellent optical quality. We are very proud of being selected by PSI as exclusive supplier. This is reinforcing our strong links with industrial application and reinforce our position of leader in this specific market.” said Vincent Hardy, General Manager of ALPAO.

“ALPAO realizes its turnover with almost 50% from medical applications (vision science, microscopy). This industrial agreement will develop the availability of this technology to healthcare professionals, allowing the diagnosis of many pathologies, ocular, neurological or cardiac, thanks to a simple image of the retina.” said Vincent Tempelaere, CEO of ALPAO

#### **About PSI**

For over 40 years, PSI has provided technology solutions and innovative products to our government and commercial customers. Our employee-owners continue to grow the company across a range of markets applying emerging science to important problems. We play an important role in the development and transition of advanced technology from the laboratory to commercial and government use.

PSI has a highly interdisciplinary staff with advanced degrees in chemistry, biology, physics and applied physics, electrical, aeronautical, and mechanical engineering, and materials science. We are structured to enable cross-disciplinary collaboration between our scientists and engineers in order to develop solutions to our customers’ technical problems.

Our extensive laboratory and prototyping facilities as well as low rate production capability enable us to rapidly go from concept to advanced prototype, and then on to manufacturing. We couple this internal capability with our long heritage in field and clinical testing of prototype systems enabling us to gain valuable feedback leading to rapid improvement.

**For more information:** [www.psicorp.com](http://www.psicorp.com)

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#### **About ALPAO**

ALPAO designs and manufactures a complete range of adaptive optics products for use in research and industry from 2005. ALPAO provides deformable mirrors, wavefront sensors and software. With a background in astronomy, ALPAO’s products are tailor-made for various applications, such as ophthalmology, microscopy, astronomy, wireless optical communications and laser applications.

Thanks to breakthrough technologies, ALPAO has introduced several products over the years, such as, a new technology deformable mirrors in 2008, new drive electronics in 2009, the DM97-08 dedicated to vision science application in 2013 and the DM468 and 820 in 2015.

With more than 10 years of experience in adaptive optics, ALPAO’s deformable mirrors allow large stroke, fast deformation and very good optical quality.

ALPAO is an international company with customers on four continents in over 20 countries. More than 90 percent of its turnover comes from exports.

**For more information:** [www.alpao.com](http://www.alpao.com)

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