



Press release

G-ray Medical and CSEM reach a major milestone in the development of the latanium™ technology

First high resolution images after three years of R&D

Hauterive, Neuchatel, 20 December 2018 – **G-ray Switzerland and CSEM have achieved a major milestone in packaging the latanium™ technology to deliver X-ray imaging solutions: the latanium™ Evaluation Kit. Centered on particle-counting X-ray imaging, these unique solutions are set to improve the quality of the images obtained from examinations such as breast cancer screening helping earlier detection and reducing the radiation doses currently needed for mammography. "This milestone enables us to demonstrate the huge potential of our latanium™ detectors with our first high resolution images," emphasizes Philippe Le Corre, CEO of G-ray Medical**

G-ray Switzerland SA, a Neuchâtel start-up, is currently developing ultra-high performance detectors dedicated to medical applications (in particular mammography). These ultra-high performance detectors will be developed in partnership with CSEM, based on G-ray's revolutionary latanium™ technology.

"The main challenge is now miniaturising both the sensor's pixels and the system's energy consumption, whilst offering very high-quality X-ray imaging for new generations of medical imaging solutions," explains Mario El-Khoury, CEO at CSEM.

Since the beginning of the 21st century, there has been a worrying increase in cases of breast cancer among young women. To maximise the chances of recovery of this frequent cancer, an early and reliable diagnosis of the disease is crucial. G-Ray Medical intends to offer the medical world a new generation of X-ray imagers based on its latanium™ electronic technology. A specific development is on-going with CSEM G-ray to produce the first latanium™-based medical detector, planned to be completed by end of 2019.

Enclosure: image of a salamander which highlights the image resolution's quality without any treatment.

Additional information

G-ray Medical Sàrl

Philippe Le Corre
CEO

Mobile: +41 79 171 71 30

E-mail: philippe.le.corre@g-ray.ch

CSEM SA

Florence Amez-Droz
Corporate Communication Manager

Tel. +41 32 720 5203

Mobile: +41 79 311 5116

Email: florence.amez-droz@csem.ch

About G-ray Medical Sàrl and G-ray Switzerland SA

G-ray Medical Sàrl is the medical arm of G-ray Switzerland SA, a company founded in 2014 in Neuchâtel. G-ray Switzerland is a developing company that has filed several revolutionary patents in the fields of X-ray imaging and new semiconductor assembly techniques. The company now boasts key skills in monolithic detectors with integrated high-resolution CMOS. These innovations apply to a wide range of medical applications, including (but not limited to) mammography.

Further information is available at www.g-ray.ch

About CSEM

CSEM—technologies that make the difference

CSEM, founded in 1984, is a Swiss research and development center (public-private partnership) specializing in microtechnology, nanotechnology, microelectronics, system engineering, photovoltaics and communications technologies. Around 450 highly qualified specialists from various scientific and technical disciplines work for CSEM in Neuchâtel, Zurich, Muttenz, Alpnach, and Landquart.

Further information is available at www.csem.ch

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Media contact

CSEM

Florence Amez-Droz

Corporate Communication Manager

Tel. +41 32 720 5203

Mobile: +41 79 311 5116

Email: florence.amez-droz@csem.ch