Case Study RaySafe X2

Unilabs Performs X-ray QA Testing for Radiation Safety

Results

- Convenient and accurate measurements with quick start-up and no special settings
- Easy handling with orientation independent sensors
- Reliable and portable system – your perfect travel partner

Application

X-ray Quality Assurance (QA) testing.

Customer

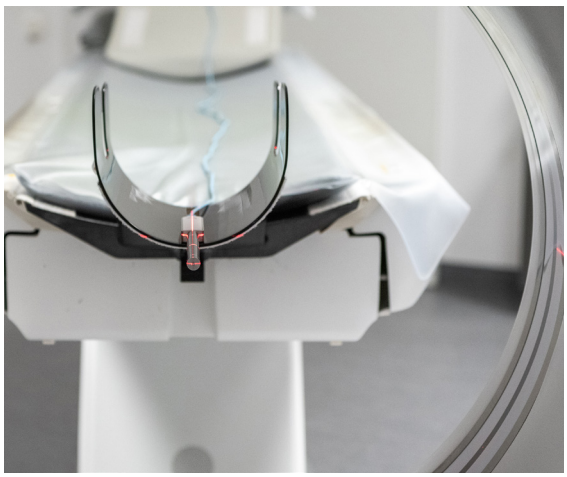
Unilabs was founded 1987 in Switzerland, and has ever since grown rapidly to become the undisputed European leader, and a worldwide diagnostics service provider. Their mission is to be at the heart and start of all effective treatment decisions.

Unilabs has more than 500 radiologists in 180 medical imaging centers across Europe, and performs and interprets close to 4 million examinations every year. Unilabs supports governments on national screening programs, delivers fast-track access for private insurance customers, helps hospitals manage in-house services, and facilitates quick, effective treatment decisions for tens of thousands of healthcare professionals across Europe.

Challenge

To comply with applicable standards, X-ray machines need to be tested to ensure patients and staff will not be exposed to unnecessarily high radiation doses while making sure image quality is optimal to avoid repeated procedures and wrong diagnoses. Quality assurance testing is also important for efficient operation, and to avoid downtime when examining patients.

> *The RaySafe X2 system is easily connected to the computer, and all exposures are automatically linked which saves a lot of time during measurements."*
>
> Anna Carlander, Medical Physicist, Unilabs



The RaySafe X2 CT Sensor is a pencil shaped ion chamber which will pick up radiation for the full 360-degree rotation of the X-ray tube.

Anna and her colleague are responsible for making sure all X-ray machine measurement parameters are within specifications and to check for any deviation between two tests. Each machine is checked annually.

Since the two physicists cover the long-stretched country of Sweden, they need to travel to different health facilities, including the many Unilabs centers. Measurements are carried out during after working hours when no patients are being examined. It is therefore crucial to bring reliable and accurate measurement devices for all necessary tests during these limited time slots.

Yearly tests are performed on X-ray machines for mammography, radiography, fluoroscopy, and CT using the RaySafe X2 system. This system includes an easy-to-navigate Base Unit and very accurate sensors for all modalities, and it requires a minimum of settings compared to other equivalents on the market.

“The RaySafe X2 system is incredibly easy to use for measurements on different X-ray equipment in a radiology department. The Base Unit adapts to which sensor is connected to the system. The RaySafe X2 system is portable and easy to carry, which is important for us who are on the move a lot. Everything fits into a small customized case.

RaySafe handles calibration of the system in a smooth way and is certified according to ISO/IEC 17025.

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RaySafe X2 System including Base Unit, R/F, MAM, CT, Volt, Light, mAS and Survey sensors.

RaySafe

We empower our everyday heroes to focus only on protecting lives.

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