Philips ClarifEye Augmented Reality Surgical Navigation

A usability evaluation was conducted in 2020 for the ClarifEye system in a simulated lab environment with clinical users (neurosurgeons, orthopedic surgeons, x-ray technologists and OR nurses) in a test lab in Cleveland, Ohio, USA

Involving
14 clinical users
from the USA

Perform procedures simply and easily
ClarifEye offers Philips intuitive user experience and simplicity of control to make it easy to learn and use.

Key **findings**[1]

100%
of participants found the system user-friendly

100%
of participants agreed that elimination of steps that are normally required using conventional navigation systems (registration, placing reference frame, positioning of separate camera systems), will save them time

100%
of participants believed that the full integration of imaging and navigation into one system will improve the workflow of navigated cases

86%
of participants believed the procedure time will be shorter compared to other navigation systems

Usability evaluation shows that **ClarifEye** has a SUS-score of

The System Usability Scale (SUS) is a scientifically-proven independent scale used to rate technological systems on their usability and learnability (based on 500+ diverse technological systems).

What is ClarifEye?

ClarifEye is an industry-first solution that combines imaging and augmented reality (AR) navigation into one system, to support precise planning and effective device guidance for accurate[2] placement of pedicle screws.

Who is it for?

ClarifEye can be used in navigated open and minimally invasive spinal procedures in a hybrid operating room.

Learn more about ClarifEye **Visit www.philips.com/ClarifEye**

Key benefits of ClarifEye

- ✓ Imaging and navigation into one
- ✓ High quality Intra-operative cone beam-CT imaging at low dose
- ✓ Non-invasive patient tracking streamlines workflow
- ✓ Live augmented reality needle guidance to support precision

1. Results obtained during a Usability Evaluation with clinical users (neurosurgeons, orthopedic surgeons, x-ray technologists and OR nurses) in a simulated use environment.
2. Elmi-Terander A. at el. Augmented reality navigation with intraoperative 3D imaging vs fluoroscopyassisted free-hand surgery for spine fixation surgery: a matched-control studycomparing accuracy

CE 0344

This medical device conforms with the applicable requirements set out by the European Union, as demonstrated in the Declaration of conformity.