

# User experience demands comprehensive quality control

## Quality Assurance is the precision of details and verifying user experience

Finnish instrument manufacturer Suunto has been making precision instruments since 1936, specialising in a range of products for active individuals, adventurers and divers. User experience is a critical quality factor for Suunto and their customers. Quality control of R&D for instruments, software and digital services is highly comprehensive at Suunto.

Quality assurance R&D work for Suunto EON diving instruments is one of several such projects in which Qentinel has been involved. Besides technical quality, the user's experience of that quality is an integral aspect of Suunto diving instruments. These instruments are tested under various conditions ranging from the warm waters of the Red Sea to the chilly depths of the Baltic under winter ice floes. Some test dives were also made under virtual conditions in a pressure laboratory.

## Added value from test automation

Qentinel introduced test automation as a new approach to instrument R&D work. Several Suunto instruments incorporated in the [Robot Framework](#) were hooked up to the test bench, enabling them to adjust the values of instrument fields. There was also an overnight software upgrade."

It is the approval of end-users that demonstrates comprehensive quality control to the development team: the new features and flexibility were warmly received by all diving enthusiasts from beginners to experienced underwater cave explorers.

### Benefits for Suunto

01

#### Safety

You can't release diving instruments without quality assurance. Qentinel has helped Suunto to ensure their devices work correctly.

02

#### User experience

Authentic test environments and virtual tests in a pressure laboratory are integral part of the quality experienced by the users.

03

#### Comprehensive quality

Compatibility of the devices, software and digital services.

## About Suunto

Suunto is at the forefront of design and innovation for sports watches, dive computers and sports instruments used by adventurers all over the globe. Employing more than 400 people worldwide, Suunto products are sold in over 100 countries. The company is a subsidiary of Amer Sports Corporation

**"You can't release diving instruments without quality assurance. Faulty diving equipment can cost lives, so proper testing is vital."**

– Jarmo Rautiainen, Technical Project Manager Cloud Services, Suunto