

A Secure Feeling: Smart Home Solution ednet by Assmann tested

Always knowing if your home is secure is what "ednet. smart home Starter Kit Security" by Assmann Electronic does. With a camera, a motion detector and two contact sensors the user can supervise their home when they are not there. As soon as the sensors recognize a movement, the user gets a message on their smartphone.

For a Smart Home solution that aims to secure people's houses, it is key that the system works without any issues and is easy to operate. The user can only rely on it when this criteria is met. For this reason, Assmann assigned the task of conducting an end-to-end-BugAbility™-study to the software testing provider Testbirds. In such a test, hardware and software components are checked for malfunctions and usability.

Test under real conditions at home

For the study, 23 crowd testers from Testbirds searched for functional and usability issues. For the selection of the testers, Assmann Electronic had one important criteria: to have participants with an avid to moderate interest in technology. This way, it could be tested if the solution is user-friendly regardless of the technological knowledge of the user.

Facts about the test

- **End-to-end-BugAbility™-study**
- **23 testers**
- **Age** of the testers: between 19 and 53 years
- **Sex** of the testers: 85% men, 15% women
- **Interest in technology:** Participants with an avid to a moderate interest in technology

The test was conducted under real conditions in the testers' homes. To this end, Testbirds sent the "ednet. smart home Starter Kit Security" to their homes, where they tested it with their own smartphones. Family members and roommates took part as well to check how well the solution works in a household with several people.

The users also tested for the installation of hardware, such as cameras and sensors. The usage of the app was thoroughly examined as well, monitoring things like under which circumstances the system sounds the alarm. This means for instance, that the solution only alarms the user if the front door has been opened, and not if someone moves inside one of the room.



Results: bugs fixed, usability optimised

“A very valuable result for us was that some testers could not connect the camera with the app”, says Roman Reger, Senior Product Marketing Manager at Assmann Electronic. “Based on the test results we were able to fix such critical bugs before the product launch.”

Regarding usability, the testers found the installation as well as the use of the security system, as very easy and intuitive. They also found that the instructions in the app, (e.g. for installing the sensors and actors) were well visualised. However, they saw room for improvement in the arrangement of some features, which were partly difficult to find – such as the function for installing new sensors. Therefore, they recommended displaying these features more prominently. With these valuable results, the smart home solution ednet could be optimised before the launch and was marketed successfully.