



potential fall risks. Thomas explains – “We have had a firefighter who got killed when he fell through a skylight. He was not aware of its existence but now we have to ability to spot them before it is too late”.

### What the future may hold

High-definition and thermal imagery is only the beginning. As the UAV technology gets more stable, the focus will shift to what real-time information the platform can provide. There is no doubt about the platform’s advantages, but how can the potential be exploited? Thomas has an idea – “It would be great to minimize the use of personnel when dealing with chemical accidents for an example. A drone equipped with chemical or asbestos detection sensors would greatly reduce the major risks associated with these types of incidents”. As of now, the Huginn X1 is one of the few UAVs in the world with a basic analog chemical detection accessory kit. It uses Chameleon chemical cassettes,

by Morphix Technologies, to detect a given airborne chemical within the area. Sky-Watch is already looking into a digital solution, so that the information would be streamed in real-time to the control unit and Navigator. “In the future it will be the data collected by the UAV that will be interesting and not the UAV platform itself – different sensors, which collect data and the afterwards data processing” – Thomas continuous. At the moment, Thomas and the Copenhagen Fire Brigade has developed a solution to stream the live video feed from the drone to their emergency center and incident command vehicle. A solution that makes it possible for a third party expert far away to assist the Incident Leader in his difficult decision-making. It is essential to have the right information at hand when high-risk decisions have to be made. By enabling the possibility to have specialist from all over the world look at the specific situation contributes to time-, life- and cost-saving operation handling, regardless which kind of disaster the fire brigade may encounter.

### Safety and insurance

Around the world, governments face a lag of UAV regulations, as this type of flying aircrafts have not been dealt with before in such a large scale. The consequences can often be seen when individuals fly their private drones and causes near-collision accidents with commercial airplanes. In Denmark, Sky-Watch is proactive on developing regulations and is working together with UAS Denmark on dealing with this unfortunate trend. Sky-Watch offers a two and half day training course ending with a test and certificate upon satisfactory completion along with product liability insurance. “As a UAV developer and manufacturer we believe that we hold a certain responsibility that our products first of all performs as promised, but we also have to ensure that all possible safety precautions regarding user, product and environment has been made.” –says Jonas Dyhr Johansen, Vice President at Sky-Watch. He continuous – “We take pride in knowing that our products has been