

# Case study



## 110 Agder

The towns Risør, Kristiansand, Mandal and Flekkefjord wanted thermal surveillance of their dense collection of historic wooden buildings to prevent fires, and chose the Detec Next Fire Detection solution.

### Customers:

Risør, Kristiansand, Mandal and Flekkefjord connected to 110 Agder in Arendal on the South Coast of Norway

### Dealer/Installer:



### Facts on the installation:

- 13 radiometric thermal cameras
- 8 IR PTZ cameras
- Integrated with emergency center alarm management system

### Background and Need

In 2015, a project group was established to secure a single solution to the emergency center 110 Agder – a joint emergency center for 29 municipalities on the South Coast of Norway. The same year, a tender was organized.

The Detec Next Fire Detection solution was evaluated against several other solutions, but won the competition because of:

- Short time needed to make adaptations according to local needs
- High degree of user-friendliness for operators
- Possibility to integrate to existing alarm management systems

Outdoor thermal surveillance is considered as an addition to internal fire detection sensors. The town of Kristiansand would have preferred a higher coverage ratio with sprinkler systems, but considered thermal surveillance to be a good complementary solution. Detec Next Fire Detection ensures fundamental outdoor surveillance without being affected by what each building-owner has selected as indoor fire detection systems.

### The Delivered Detec Next Fire Detection Solution



Photo: 110 Agder

# A Safe Choice



D E T E C

The solution that has been delivered, is comprised of a central server at 110 Agder emergency center, network connections to 110 Agder, local analysis and recording units in each town, 13 thermal cameras with Detec Next RAD licenses, 8 controllable pan, tilt and zoom (PTZ) cameras and integration to third party alarm systems.

A crucial part of the solution is a radiometric thermal camera that can measure temperatures with great precision on each pixel. The Detec Next RAD camera licenses exploit these data in their analysis to keep the false alarm rate to a minimum. This is one of the key advantages 110 Agder had for selecting the solution. The thermal cameras give very few false alarms thanks to fine tuning of settings after installation through camera license features.

110 Agder have experienced the software to be very stable with an easy user interface. The servers are also running Windows operating system which also has a familiar user interface.

**«One of the main benefits with the system is that it is easy to use, buttons and menus are self-explanatory, and there is no clutter.»**

- Christen Bentzen, 110 Agder

The delivered PTZ cameras all have 36x optical zoom, full HD resolution, integrated infrared light with a range of more than 200 meters and 360 degrees rotation.

One advantage is that the cameras are automatically positioned to a field-of-view matching the thermal image before you start

**«A high-quality PTZ camera is decisive for verifying thermal alarms. The PTZ cameras deliver excellent images both day and night thanks to the IR lighting.»**

- Christen Bentzen, 110 Agder

taking manual control of the camera to zoom in on the alarm region and source.

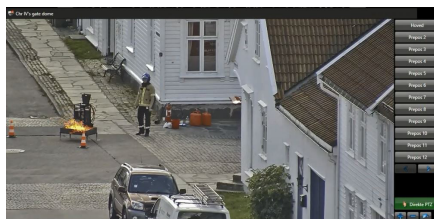


Photo: 110 Agder

## Mounting

Detec AS sell all solutions and products through their dealer network. In this project, the local dealer/installer was the certified partner Bravida. Detec can ensure that all partners get necessary training.

For this project, all towns had great locations for installing the cameras to get the best possible overview of the wooden buildings.

**«We are very content with the work from the installer Bravida and have the impression they know the solution very well.»**

- Christen Bentzen, 110 Agder

Rooftops and natural heights were used to get the highest placements with the most bird's eye view on critical parts of the towns. A good view and perspective is an important condition for the solution to work well.

The configuration of alarm settings is relatively advanced and usually requires some fine tuning to minimize error sources.



Photo: 110 Agder

Especially so for locations with great differences in seasons. This can be done by the technical support team from the solution provider Detec AS. For 110 Agder this was done remotely.

Detec AS has also performed training of key personnel in the fire department who have arranged internal training afterwards.

## A System for the Future

110 Agder has the possibility of adding more cameras and locations if more municipalities want to join in on the solution. Network lines and technical systems are dimensioned to handle expansions or can be built up even more if needed. Already, 110 Agder have received interest from the town of Mandal to add new cameras.

With the Detec Next Software as the base layer, there are in principle no limitation to how big a system can become. You get a free number of interconnected servers. The number of cameras per server is depending on hardware specifications. On an emergency center, you can expand with unlimited number of clients and monitors.

All photos and text published with permission from 110 Agder.

## Contact Information:



### Detec AS

Visiting address: Sandakerveien 24C, Bldg. A4, N-0473 Oslo, NORWAY

Postal address: PO BOX 44 Torshov, N-0412 Oslo, NORWAY

**D E T E C**  
- your security

Web: [www.detec.no](http://www.detec.no)

E-mail: [post@detec.no](mailto:post@detec.no)

Phone: +47 23 23 22 80