InNOVA Remote Towers makes it possible to remotely manage single or multiple airports from one position. The system is capable of displaying all information needed to ensure safe air and ground traffic, and can be enhanced by safety functions that improve the air traffic controllers’ situational awareness.

InNOVA is the preferred solution for the world’s largest remote tower programme, which is being rolled out in Norway. Based on the same software and hardware as other InNOVA tower systems that are in operation worldwide, including at major hubs such as Heathrow, Dubai and Beijing, InNOVA has already proven its performance and reliability.

With InNOVA, remote control of airports can increase the safety level compared to other solutions in a traditional tower.

InNOVA Remote Tower features the following functionality:

- **Electronic Flight Strips (EFS)** – sorted by data flow and responsibility, and integrated with the TSD and INFO systems. The EFS can interface with external flight plan servers for full integration including handover functions.
- **Traffic Situation Display (TSD)** – provides a bird’s eye view of all moving tracks on a map for approach and ground traffic (sensor-dependent). Also includes relevant safety functions such as the Runway Incursion Monitoring and Conflict Alert System (RIMCAS).
- **Information and Control (INFO)** – Shows and monitors various parts of the system, such as AWOS/MET, ATIS, ground lighting, navigational aids, camera control and alarms, along with easy access to charts, procedures and other important documents.
Multiple operations, single display

InNOVA Remote Towers enables controllers to conduct all digital aerodrome services safely and reliably from a remotely located control center. The solution is based on a fully integrated tower system replicated in a remote tower environment, where all relevant information is efficiently and operator friendly presented on a 4k touch-screen head-down display. The HMI layout is designed in close cooperation with Avinor tower operators and Human Factor experts.

With all information in one screen, it becomes easier for air traffic controllers to focus on their core task of ensuring safe and efficient air traffic. Less equipment also means lower cost and less maintenance.

Benefits of InNOVA Remote Towers

- Improved situational awareness. All information and displays integrated into one touch-screen
- Increased safety. Smart functionality alerts about potential conflicts
- Improved cost-efficiency. Lower operational and lifecycle costs
- Flexibility to meet your needs. Scalable to the requirements of any remote operations

Smart safety alerts

InNOVA Remote Towers alerts the air traffic controllers if potential conflicts or other safety-critical situations in air or on ground are detected by the system. InNOVA’s safety alerts have been developed in collaboration with some of the most complex airport and airspace environments in the world, such as NATS for London Heathrow, DTI for Paris Charles-de-Gaulle and Skyguide for Zürich.

A scalable system

Whether you need to manage single or multiple airports from one position, or are looking for a solution for a contingency centre, InNOVA Remote Towers can be tuned to your needs. As part of our InNOVA AIR concept with automated, integrated and remote tower solutions, we offer a complete portfolio for safe control of air and ground traffic. InNOVA Remote Towers can be used independently or as an integrated part of Indra’s air traffic management systems.

The preferred solution by Avinor

InNOVA Remote Towers is the preferred solution for the world’s largest remote tower programme: NINOX by Norwegian air navigation service provider Avinor. The programme includes the remote control of 15 airports in the first implementation phase that will be completed in 2021.