



WHEN YOU NEED TO KEEP CONTROL

KVM EXTENSION/DATA VISUALISATION TECHNOLOGY SOLUTIONS

Black Box designs, sources and implements high-performance solutions for the most demanding Air Traffic Control Centres and airport network applications. Our KVM (Keyboard-Video-Mouse) and Professional AV solutions help coordinate flight departures and arrivals, and control overflying traffic which requires high operational safety and reliability of all IT systems. All of it with the focus on increasing operational efficiency, providing centralised management, and reducing manpower demands.

For more information visit BLACK-BOX.EU/ATC



INVISAPC™



RADIANT™ VIDEO WALL PROCESSOR



DKM 4K KVM MATRIX SWITCH



CONTROLBRIDGE™ CONTROL SYSTEM

GAIN IMMEDIATE REAL-TIME REMOTE ACCESS

Access computers remotely up to 40 kilometres away from the ATC tower or even over the internet.

DISPLAY ATC VIDEO AND RUNWAY FOOTAGE

Camera footage can be forwarded digitally from the ATC tower to an Air Traffic Control Centre to be displayed on video walls; in some cases providing a 360-degree view.

EVENT-DRIVEN VISUALISATION WITH REAL-TIME SITUATIONAL AWARENESS

Visualise runway footage and critical status data on highly configurable video walls.

STREAMLINING ATC FOOTAGE

Video encoding, decoding, streaming and visualisation with lossless compression, providing accuracy and dependability for ATCs, training & simulation, and command & control environments.

REMOVING HEAT, NOISE, PCS, AND CABLES FROM THE OPERATOR WORKSPACE

KVM systems ensure that controllers and supervisors are able to access different, remote and distributed computers while meeting precise requirements regarding safety, redundancy, efficiency, productivity and cooling.

AIR TRAFFIC & GROUND TRAFFIC CONTROL MONITORING

Real-time ATC data distribution from take-off to landing is crucial for safe air operations. For this to happen, air traffic controllers usually follow regular patterns and develop routine scans, gathering information in a structured and consistent manner from various screens. Due to large data volumes processed by multiple PCs and servers, employees face challenges in focusing on their work as they might get distracted by fan noise and heat emission.

KVM technology allows any air traffic controller to access multiple computers through one single set of keyboard/video/mouse, committing to a safer environment with increased operational efficiency and enhanced situational awareness. In addition to improving operator working ergonomics, KVM end-to-end systems securely transmit uncompressed video (pixel by pixel, no dropped frames) and peripheral signals over large distances, which can help ATC organisations to securely locate critical computing assets away from user desktops. KVM frees up space in the control room while keeping the environment undisturbed by computer emissions such as heat and noise, isolating all computing resources in a climate-controlled, secure server room.

