

# international airport review

A large passenger airplane is shown in flight, viewed from a low angle, flying over a stylized globe. The globe is depicted with a clock face overlay, featuring a large black hand and a yellow dot at the 12 o'clock position. The background is a bright blue sky with scattered white clouds.

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## Keeping global aviation safe – The ICAO declaration

*Jim Marriott, Chief of Aviation Security at ICAO*

## Pushing the boundaries of airport IT – Innovation at Munich

*Michael Zaddach, Vice President of IT and  
Communication Systems at Munich Airport*

## Running like clockwork – GIS at Phoenix Sky Harbor

*Mike Youngs, GIS Programme Manager for the City of Phoenix Aviation Department*

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GmbH

seit 1985

G&D

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# KVM technology keeps tools sharp for controllers

Control room operators require permanent concentration and the very best tools. Ultimately there is no difference whether baggage handling or ATC needs to be monitored. Either area has the potential to bring the entire airport operation to a standstill within minutes if a breakdown occurs.

## How does a KVM switch work?

The stand-alone devices allow a user to access a pool of computers – even with different platforms – over one keyboard, video (display), and mouse. As is standard in KVM technology, the switch works without additional software installations since it only accesses the external computer interfaces.

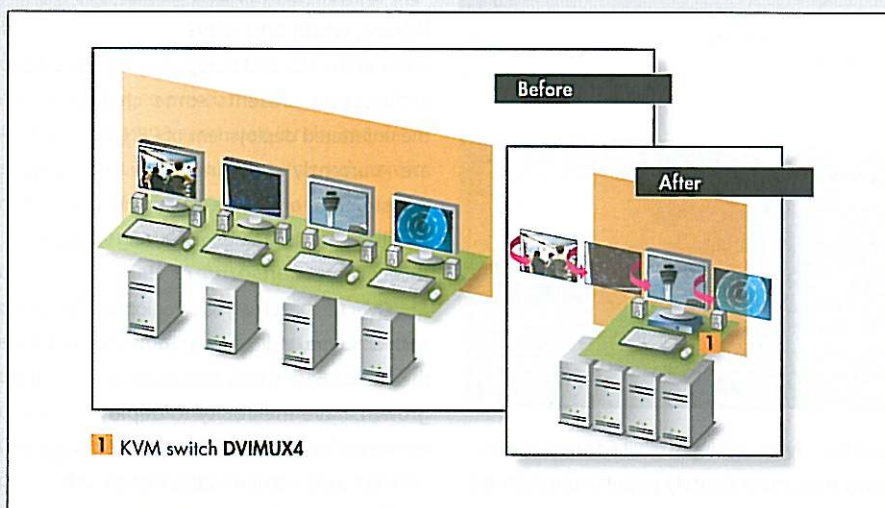
This solution is not only beneficial to ergonomics but also facilitates the work of the controller, because all computers can now be operated with one set of input devices.

The free working space allows for more staff in the same space. Economically speaking, the solution reduces acquisition costs and IT TCO and saves primary as well as secondary energy while increasing the computer's efficiency.

KVM switches access between two and eight computers, cascaded up to several hundreds. Each computer can be accessed over keyboard hotkey, on-screen display (OSD), push button or external device.

KVM devices adapt to incoming video signals like DVI dual-link (res. 2560 × 1600 @ 60 Hz), single-link (1920 × 1200 @ 60 Hz), or VGA (1920 × 1440 @ 75 Hz). Some variants also provide audio and microphone features. And if the controller needs to view the images of all monitors at the same time, a keyboard/mouse switch comes in handy. The switch allows the controller to operate all computers over one keyboard and mouse. High-quality KVM switches transmit both DVI and VGA signals.

More to come  
How KVM extenders and matrix switches increase the efficiency of any control area will come soon; stay tuned for more or take a look at <http://atc.gdsys.de>



For carrying out these responsible tasks, controllers work with highly professional computers. But each computer requires keyboard, monitor, and mouse thus limiting space and generating noise, heat, clutter, dust, and health and technical issues. How do people in charge increase the efficiency of employees while maintaining the effectiveness of computers? An eligible solution for streamlining processes is the 'KVM' technology by German manufacturer Guntermann & Drunck.

## What is KVM about?

Originally, the acronym "KVM" described a technology for extending and switching a computer's K-eyboard, V-ideo, and M-ouse

signals. Nowadays, KVM switches and extends multiple signals: DVI dual-link up to 4k resolution, single-link DVI and analogue video, bi-directional audio as well as transparent USB. Compared to network operation, KVM products establish a 1:1 instead of a data connection to the computers.

Three main categories of KVM devices improve the working environment of controllers and computers.

1. KVM switches: Operate multiple computers cross-platform with only one keyboard, video, and mouse
2. KVM extenders: Separate computers from users
3. KVM matrix switches: Combine extender and switch functions in one system